

RECORD OF PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1989 to June 30, 1990

VOLUME 1

1989-1990

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

	<u>Term Beginning</u>	<u>Term Expiring</u>
John W. Berry, Dayton	May 14, 1981	May 13, 1990
Shirley D. Bowser, Williamsport	May 14, 1982	May 13, 1991
Hamilton J. Teaford, Columbus	May 14, 1983	May 13, 1992
John J. Barone, Toledo	May 14, 1984	May 13, 1993
Deborah E. Casto, Columbus	May 14, 1985	May 13, 1994
John W. Kessler, Columbus	May 14, 1986	May 13, 1995
Milton A. Wolf, Cleveland	May 14, 1987	May 13, 1996
Leslie H. Wexner, Columbus	May 14, 1988	May 13, 1997
Alex Shumate, Columbus	August 10, 1989	May 13, 1998
Theodore S. Celeste, Columbus	June 19, 1990	May 13, 1999
Laurel A. Davis, * Tipp City	February 6, 1989	May 13, 1990
Sophia L. Paige, * Columbus	May 30, 1989	May 13, 1991
David A. Tonnies, * Lake Milton	May 14, 1990	May 13, 1992

\* Student Trustee -- non voting.

OFFICERS

John W. Berry, Chairman  
Shirley D. Bowser, Vice Chairman  
Madison H. Scott, Secretary  
James L. Nichols, Treasurer

THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTY-SECOND MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, July 7, 1989

The Board of Trustees met at its regular monthly meeting on Friday, July 7, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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July 7, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on July 7, 1989, at 1:35 p.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Sophia L. Paige, and Laurel A. Davis.

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## **CAPITAL BUDGET REQUEST FOR 1990-1992**

Mr. Ihrig:

As we do every two years, we are prepared to present to the Board of Regents the University's request for capital appropriation for the three biennia 1991 through 1996. In this process the University looks at all its capital needs regardless of source of funds, whether it be state, gifts, earnings, or internal operating dollars. Then we decide the projects to request that are best suited for State support and those are related to instructional facilities and the related support facilities. Throughout this capital process the key is to define our priority needs both from a programmatic stand point first, and then, secondly, to assure that the facilities that are provided to our faculty and staff meet today's state-of-the-art technology needs.

This process begins with reviewing with the deans and the vice presidents the capital list which is definitely listed in a priority order from the prior capital program. David Marsh, who is Associate Vice President of Finance and in charge of Campus Planning, will make the presentation today. His office works with the deans to develop their priorities and review whether there are any changes from the prior year. The process is very disciplined, because we must then go in and justify the priority list to the President and review any changes that happen in the priorities, of which there are few. But we do adjust to changing needs as well as any major repair considerations that are brought to our attention during the planning process.

While we develop this for three biennia, or six years, it is the first biennium -- the first two-year period -- that is the key. The costs are our best estimates based upon preliminary program data. We continue to look for better ways to handle construction at a more cost effective approach in developing these estimates. I would like to have David Marsh review with you a summary of what is in the first biennium of these requests. This will give you some idea of the type of items we are requesting of the State and then we will open it up for questions. David --

Mr. David C. Marsh:

Thank you, Mr. Ihrig. Mr. Chairman, members of the Board, it is my pleasure to give you a brief overview of the University's capital plan which must be forwarded to the Ohio Board of Regents as part of the Higher Education State Capital Funding Request for the 1991-92 biennium.

The Ohio State University's requests for capital improvement funds in the period 1991 through 1996 are based on a careful study of both program needs and the condition of the facilities housing these programs. While a large portion of this plan addresses outdated facilities, some additional space requirements have also been identified. Recognizing that funds are severely limited, the University continues to give priority to those programs that, with the assistance of the Board of Regents, are moving toward excellence but are restricted due to inadequate facilities.



**CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

Mr. Marsh: (contd)

In this and subsequent Capital Plans, the primary emphasis is on the rehabilitation and modernization of existing buildings and utilities to ensure an appropriate fit between the academic mission of The Ohio State University and its facilities. Our major goals and strategies in this and future capital planning will focus on the following areas:

1. Providing the facilities considered necessary to support the University's prominent position as a quality institution of higher education that is recognized for its excellence in teaching, research and public service.
2. Remodeling or rehabilitation of those outdated facilities which do not meet today's current educational needs with respect to space requirements, equipment, and/or utilities when such work is cost effective.
3. Updating utility systems, roads, grounds and building environmental systems with emphasis on energy conservation, health, and safety and to prevent further deterioration of the physical plant.
4. Introducing projects required to support the University's prominent role in evolving programs such as biotechnology and computer and information science.
5. Realizing economies in operating costs and space utilization, along with improved services to students and faculty, through the consolidation of existing branch libraries and the consolidation of academic departments into one location.

While recognizing that it is impossible to renovate or replace all of the University's facilities within the six years of the Capital Plan, a commitment by the State for an increased level of funding is needed to properly plan the sequence of improvements. Many buildings are renovated while still occupied, due to the lack of other facilities for temporary relocation. However, some projects require that the activities affected be relocated due to the delicate nature of the instruction and research carried out in those facilities. The University's Capital Plan attempts to provide a sequence of projects that minimizes disruption and provides the lowest overall cost. Varying this sequence as a result of funding restrictions, not only delays construction, but increases total costs due to required alterations in project schedules and relocation plans.

Now I would like to provide a brief overview of some of the projects in our first biennium request. Let me introduce to you Mr. Jack Probasco, Facilities Planner in the Office of Campus Planning, who prepared much of the material in the campus plan. Jack will point out the projects on the map where the projects are located as I read you the descriptions of the projects.

If you will now turn to page six in the document that was placed before you earlier, this lists the projects in the three biennium that we are requesting funding for. The first five projects from basic renovations on the Columbus Campus through OARDC renovations consists of smaller projects to building components such as roofs, window replacement, chiller replacements, roads and grounds improvements, and

July 7, 1989 meeting, Board of Trustees

## **CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

Mr. Marsh: (contd)

etc. The descriptions are listed toward the end of the document. I won't go through those in detail, but if you are interested you can look at those and if there are questions later, I can speak to those.

Mr. Teaford:

Can I ask you one quickly though? This goes on to the Regents, they do look at those particular items, right?

Mr. Marsh:

Yes, sir, they do. Before we start I should ask Jack to orient us on the map. Hopefully, you can see the map OK, but -- why don't you orient us to general location and then you can point out each project as we go.

Mr. John F. Probasco:

This is Lane Avenue, High Street, Olentangy, and Rt. 315.

Mr. Marsh:

The Brown Hall Annex Replacement--Phase II -- this project is currently in design. It will provide an addition to the Math Building to consolidate the Department of Mathematics into two adjacent buildings and a Science and Engineering Library to permit the consolidation of the Engineering, Mathematics, Materials Sciences, Chemistry, and Physics libraries. The library consolidation will provide much needed space increases and improved services to the Sciences and Engineering. In addition, space will be vacated in several key buildings to address critical space needs in Physics, Chemistry, Electrical Engineering, and Computer and Information Sciences.

The Equine Center project will construct an addition to the Veterinary Hospital to provide space to accommodate a rapidly growing equine trauma unit for treating horses with various fractures and other conditions requiring emergency treatment and intensive care. Matching gift funds of \$1.5 million have been made available. This project is currently under design.

President Jennings:

That is the Galbreath family gift in honor of John.

Mr. Marsh:

The third project is an addition to Dreese Lab and also associated with that a project for the remodeling of Caldwell Hall which is adjacent to that. These two projects will provide a central facility for the Department of Computer and Information Sciences and much needed space additions for Electrical Engineering. Computer and Information Sciences is currently housed in several buildings and is in need of additional space. This project will permit the consolidation of CIS and provide specialized facilities such as a vibration-free clean room. The Caldwell Lab

**CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

Mr. Marsh: (contd)

remodeling will convert space that will be vacated by the Engineering Library move upon the completion of the Brown Hall Annex Replacement project to offices and labs for CIS and Electrical Engineering.

The Mendenhall Laboratory Renovation includes the complete rehabilitation of this eighty-four year old building. Every component (mechanical systems, roof, windows, laboratory benches, etc.) within this building needs attention, therefore, the entire building will be vacated for nearly two years. This oval building currently houses the Department of Geology and Mineralogy and the Byrd Polar Research Center. Limited temporary facilities are being provided in Scott Hall on the West Campus to Geology during the Mendenhall renovation. The Byrd Center will remain in Scott Hall after the Mendenhall Rehabilitation is completed. In addition, part of the Department of Geology and Mineralogy is located in Watts and MacQuigg in the Engineering area of campus. They will move to Mendenhall thus freeing up space for Engineering.

The next project is the Smith Laboratory which houses Physics and Astronomy. This building is in need of complete renovation; however, since it is not possible to relocate these departments, it is proposed that a new Physics building be constructed on the Lord Hall site and then Smith Hall can be completely renovated while unoccupied. In the meantime, funds are being requested in the coming biennium to replace some of the mechanical systems to keep the building operational until such time that it can be rehabilitated.

The next project is the Botany & Zoology Building Addition and Renovation. This includes the complete renovation of this seventy-six year old building, a small addition to the north, and the complete renovation and/or replacement of the connecting greenhouses. The building systems are worn out and are not adequate to perform modern scientific research. Since the building cannot be vacated during renovation due to lack of suitable alternate space, this project will have to be phased. Phase I will rehabilitate the greenhouses, some associated research labs and begin the design for the remainder of the renovation.

Next is the McPherson Laboratory Renovation. This includes the complete rehabilitation of this sixty year old chemistry building. This building must be renovated in phases since it is not possible or practical to relocate the Chemistry Department to temporary facilities. An addition, Evans Lab (also a Chemistry Building) was funded last biennium and is currently in the planning stages. This project must be completed first so that some labs can be moved from McPherson to free up space for the first phase of the renovation. Also, the move of the Chemistry library from McPherson upon the completion of the new Science Engineering library (the Brown Hall Annex) project will help in providing swing space within McPherson. This is a very complex project requiring very careful planning. Proper sequencing is critical.

The last project I want to outline for you today is the Law Building Addition and Renovation. This project will provide additional space for the expansion of the Law Library as well as space for faculty offices and instructional areas. The project is currently under design using \$1.5 million appropriated to the University in HB 870. The University will provide \$7.7 million toward the construction and renovation of this

July 7, 1989 meeting, Board of Trustees

**CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

Mr. Marsh: (contd)

facility with the remaining funds made available from fund raising activities.

With that I would simply like to stop and see if there are questions or concerns that we can address.

Mr. Ihrig:

This was to help give a flavor of the complexity and the types of projects that are in the list. The whole list is vitally important and have the real priorities of the University represented. As you can see, the next project is a continuation of the development of the Biotech Center in Rightmire Hall. And most of these projects are renovational work rather than new facilities. We are trying to upgrade very old buildings and make them into the state-of-the-art technology that is needed for today. We would be glad to try and respond to further questions that you might have regarding the Capital Plan. As I said, the discipline is there. We do have a priority list, and there has to be a very good reason, with matching funds in hand, to move a project up the list.

Mr. Teaford:

Which is what happened to the Law Building.

Mr. Ihrig:

That is exactly what happen to that.

Mr. Teaford:

My recollection is that the library got moved back. The President named that among our priorities the last time and we didn't get --

Mr. Ihrig:

The problem is that we never received it in the first biennium and we still haven't. We have hopes of receiving the total funding listed in the first biennium. So it has moved up, but it has not moved up far enough to reach the first biennium yet.

Mr. Teaford:

It was in last time.

President Jennings:

It was in our first biennial request. Our first biennial request was \$156 million, of which only \$100 million got funded. That is not even true. It wasn't even \$100 million in that funding.

Mr. Teaford:

But somethings have moved ahead of it.

**CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

President Jennings:

Well, Law has and the Equine Center has and that is it. But remember, that the Science and Technology Library has skipped completely over instead of being incorporated into the Mathematics building. The Fine Arts Library is now fully funded with the Wexner Center so you have those two that have skipped over everything else. That is one of the reasons incidentally that the Math building -- the Brown Hall replacement -- that is why it is an additional \$10 million. It originally was \$15 million and \$15 million was appropriated. We have essentially made the project a \$25 million project to accommodate the library.

Mr. Ihrig:

Joel, it was in the second biennium of the request last time and it was down the list the second biennium --

Mr. Teaford:

Basically, it was third down.

Mr. Ihrig:

No. Well the problem is the phasing on all of these projects. It has moved up closer to the top of the second biennium request, but due to the phasing and the time that it would take to design, it just wouldn't be prudent to try and get all the money in the one biennium while we are designing it. So part of this is a timing issue.

President Jennings:

I might add that the space and the mechanical facilities on campus are the single most difficult issue we face not only now, but realistically for the next twenty or thirty years. It is changing technology, different faculty demands, and also the fact that our capital appropriations come to us without recognition of the age of our buildings. And we, by over ten years, are the oldest single campus in the State of Ohio in terms of average age. I think about forty-five years is our average building age. The next one is below thirty-five. And third, we continue to attempt, with the General Assembly and the Board of Regents, to incorporate depreciation into the annual operating budget. While our problem is that this budget you are about to approve, which the Fiscal Affairs Committee approved this morning, has no depreciation on capital budget. If we stop to think for a moment, the replacement value of our assets is somewhere on the order of \$5 billion. An annual capital appropriation on the order of \$250 million would not be excessive by any stretch of the imagination. We are talking about an annual capital appropriation of \$50 million or one-fifth of what would be reasonable by any business standard. But we continue to try and incorporate a depreciation element into that budget. We haven't been successful, but we will keep trying on that particular issue. This is, in essence, a piece of this long-range planning. But realistically, it is going to be very difficult to satisfy all of the capital needs on this campus.

**CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

Mr. Teaford:

But it strikes me as -- especially as I hear the presentation that the long-range planning is really less involved with the capital plan than one might think -- that the driving thing in the capital plan is which buildings are falling down, rather than where the buildings will go.

President Jennings:

Some of that is in there, but much of this is because a lot of this is set so many years before, that the long-range planning impacted in any one year is very marginal. Whereas the long term activity is there. The Cancer Center is out of the long-range planning, Wexner is out of the long-range planning, Brown Hall is out of the long-range planning. But, they got started so long ago. Because of the limits, it appears that those are not needed. A lot of money and a recking ball could do an awful lot of good on this campus right now.

Mrs. Bowser:

I notice that you have very few complete replacement buildings. When you look at a building like Mendenhall, I'm sure you weighed taking it down and completely renovating it.

Mr. Ihrig:

Yes, we do. Those are very carefully considered. Now, we will admit that with the buildings surrounding the Oval our first goal will be to preserve the architecture and do everything possible to preserve those. That is our first priority. But as we get away from the Oval, we continually -- and there are certain buildings -- the infamous one is the McPherson Sawtooth or the Sawtooth behind McPherson, where we didn't try to preserve that. And there is another one that has been a favorite of David's since he was an electrical engineer and that is the Communication Lab. I don't think he has any desire to help preserve that in his planning.

President Jennings:

That is a marvelous thing. Some of these aren't modern buildings, but boy they were built well.

Mr. Ihrig:

I think Townshend and Lazenbee are beautiful examples of renovating the insides of the facilities and they are just outstanding buildings rights now.

Mr. Jackson:

I think I would only want to echo what the President has already said. We are running a race to try to catch up and we are not catching up. I'm sitting on a committee that is taking a look at the problem on a state-wide basis. And one of the problems that exists, from my perspective at any rate, is that we are not really telling the Legislature what the needs are to protect the present investment. We are really submitting a proposal that gets through to the Legislature that is based on what the

**CAPITAL BUDGET REQUEST FOR 1990-1992 (contd)**

Mr. Jackson: (contd)

dollars are that are available to support programs. That is fine, that is a decision which I understand needs to be made. But by the same token, I think it behooves us to really make the point of what the needs are versus what we are doing. That goes back to what the President said, and I think that is so crystal clear and this committee is beginning to talk about how we can get at that to make that presentation. Because if I was a Legislator, I would sit back and say "why didn't you tell me all of this, I didn't know it." Whether they will address the issue or not is a different subject. I feel lax from my standpoint that we are not telling them what the bare issue is.

Mr. Ihrig:

That completes our presentation unless there are other questions.

Mr. Berry:

Any other questions? Thank you, very much.

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**RESEARCH FOUNDATION REPORT**

Mr. Barone:

I would like to read a report from the Research Foundation grants and contracts for the month of May which are shown in the Board Agenda book. There are 121 awards listed which provide a gross income of \$9.2 million.

Funding through eleven months of this fiscal year is 15 percent ahead of the same period last year. All funding sectors except for the "other Federal" category are ahead of last year.

Some highlights of awards are:

\$196,000 from the State to Engineering and Medicine to develop a communication system for persons with speech and hearing impairments.

\$60,000 from the National Science Foundation to the Department of Industrial and Systems Engineering for research on precision machining.

\$42,000 from the National Science Foundation to the Department of Political Science to study the impact of organized lobbying efforts on Federal Judicial Nominations.

\$32,000 from the National Science Foundation to Agriculture to study the geography of high technology industry in Japan.

This concludes my report. If there are any questions, Dr. Jack Hollander is available to answer any specific questions you may have. This is your last opportunity, I understand, to ask Jack.

July 7, 1989 meeting, Board of Trustees

## **RESEARCH FOUNDATION REPORT (contd)**

Mr. Berry:

You want to make it easy on his last time.

Mr. Barone:

At this time I would like to present an expression of appreciation for Jack M. Hollander. He has been very successful in getting these research projects. I feel honored to have worked with Jack over this period of time. Just to be associated with him, slightly, has enhanced my knowledge about what research is going on at this University.

## **EXPRESSION OF APPRECIATION**

Resolution No. 90-1

WHEREAS Jack M. Hollander joined The Ohio State University in 1983 as Vice President in Research and Graduate Studies and;

WHEREAS the execution of his duties Jack Hollander has rendered exemplary leadership on behalf of The Ohio State University, and

WHEREAS Jack M. Hollander has dramatically improved the level and type of research being conducted at the University, and

WHEREAS Dr. Hollander has enriched the University through his intellect, resourcefulness, dedication and ingenuity and has brought credit to the area of research and graduate studies, and;

WHEREAS Dr. Hollander recently expressed his desire to retire from his appointment within the University;

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees here by expresses its gratitude to Dr. Jack M. Hollander for his support of The Ohio State University his contribution to our continuing growth and excellence, and convey its best wishes for his future success.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Berry:

Jack, we wish you well, and we are sorry to see you leave us. You certainly have our best wishes for the future and we will be thinking of you.

Dr. Hollander:

Thank you, very much. It has been a wonderful six years of growth and excellence here at the University, for me working with all of you and the entire Ohio State family. I think the one word I could use to describe it is joy. I had a very joyful time, and I will long remember it. And I will be back. Thank you.

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## HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board's Executive Committee met on Thursday, June 29. We reviewed the current medical staff issues and endorsed the candidates for medical staff appointments and reappointments. There are over 1,000 names in our board book. Dr. Kathryn Clausen made her final report as Chief of Staff and the Board presented her with a framed resolution showing our gratitude for her leadership.

Mrs. Kate Bradford, the retired President of the Service Board presented her annual report of this group, which really in many ways adds the human element to the Hospitals treatments of its patients. She also got an award to commemorate her service. Dr. Kramer announced the committee appointments for the coming year.

Mr. Purcell reviewed the Hospitals financial statement for the month of May, which I might say reflected a loss of some \$400,000 in terms of current operations. At this point, the Hospitals are showing a \$2 million loss for the year, which is in excess of what should have been anticipated by the fact that we don't have the Cancer Hospital. Mr. Purcell also reported that 3 of 4 disputed issues with regard to Medicaid reimbursements have been conceded by the government resulting in a \$675,000 adjustment for the Hospitals' fiscal 1985. Which demonstrates, again, one of the problems with the Hospitals funding. There was a subsequent discussion of how these pending settlements will be carried on the Hospitals financial reports.

Mr. Purcell also reported that as a result of negotiations with the State, the University Hospitals had achieved a four-year agreement with the Department of Corrections for the provision of health-care services which is far more favorable than the contract in a previous period.

Mr. Purcell reviewed the aging and source of University Hospitals receivables. There was considerable discussion of the billing and collection strategies which are now being adopted. I think it is now probable that we will bring the procedures at least into the early 20th century. I am happy to say that the receivables were reduced by some three days in the past month, so we are now down to 93 days. Regular progress reports are going to be continuing on this. As I told you last time, we do indeed have a plan now for the reduction of the days of receivables.

Mr. Jackson gave a status report on the various projects designed to facilitate the flow of traffic into and away from the Medical Center, and the problems in terms of getting people on and off of 315 are almost mind boggling.

We heard a report from the new Acting Development Director for the Hospitals, Bruce Pontious. And the Hospitals Board concluded with one more resolution in recognition of Dr. Ernie Johnson's thirty years of service as the Chairperson of the Department of Physical Medicine.

And the completes my report, Mr. Chairman.

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July 7, 1989 meeting, Board of Trustees

## **INVESTMENTS COMMITTEE REPORT**

Mr. Kessler:

The Investments Committee met this morning and reviewed the proposed reaffirmation of three Board of Trustees resolutions:

**AUTHORIZATION FOR DESIGNATED OFFICIALS TO  
BUY, SELL, ASSIGN AND TRANSFER SECURITIES,  
TO DEPOSIT OR WITHDRAW FUNDS FROM BANK ACCOUNTS,  
AND TO DESIGNATE DEPOSITORIES**

Resolution No. 90-2

Synopsis: The Investments Committee recommended the reaffirmation of Board of Trustees Resolution No. 89-33 (September 2, 1988), which authorized designated officials to buy, sell, assign and transfer securities, to deposit or withdraw funds from bank accounts held in the name of The Ohio State University, and to designate depositories.

WHEREAS designated officials of the University buy, sell, assign and transfer stocks, bonds and other financial instruments owned by The Ohio State University; and

WHEREAS various financial institutions are designated as depositories for The Ohio State University; and

WHEREAS accounts at various financial institutions are opened and maintained in the name of The Ohio State University:

NOW THEREFORE

BE IT RESOLVED, That the Vice President for Business and Administration and/or the Treasurer be authorized and empowered to buy, sell, assign and transfer any and all stocks, bonds, evidences of interest and/or indebtedness, rights and options to acquire or to sell the same, and all other securities corporate or otherwise, standing in the name of or belonging to The Ohio State University in any capacity; and

BE IT FURTHER RESOLVED, That the Vice President for Business and Administration and/or Treasurer be authorized and empowered to designate various financial institutions as depositories for The Ohio State University and open and maintain accounts at various financial institutions in the name of The Ohio State University; and

BE IT FURTHER RESOLVED, That the Vice President for Business and Administration and/or the Treasurer be authorized, on behalf of The Ohio State University and in its name, to sign checks, drafts, notes, bills of exchange, acceptances or other orders for the payment of money from said accounts; to endorse in writing or by stamp checks, notes, bills, certificates of deposit or other instruments owned or held by this University for deposit in said accounts or for collection or discount by said banks; to accept drafts, acceptances, and other instruments payable to said banks; to waive, demand, protest, file notice of protest, or dishonor any check, note, bill, draft or other instrument made, drawn or endorsed by the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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July 7, 1989 meeting, Board of Trustees

**AUTHORIZATION FOR THE TREASURER OF THE UNIVERSITY TO  
SERVE AS TRUSTEE FOR UNITRUSTS AND ANNUITY TRUSTS**

Resolution No. 90-3

Synopsis: The Investments Committee recommended the reaffirmation of Board of Trustees Resolution No. 89-35 (September 2, 1988), which authorized the Treasurer of The Ohio State University to serve as Trustee for Unitrusts and Annuity Trusts.

WHEREAS The Ohio State University Development Fund has requests from potential donors to the University or their designee to serve as Trustees of charitable remainder unitrusts or charitable remainder annuity trusts in order to minimize the expense of the trust by not having a bank serve as Trustee:

**NOW THEREFORE**

BE IT RESOLVED, That the Treasurer of The Ohio State University be and is hereby authorized to serve as Trustee for any charitable remainder unitrust and charitable remainder annuity trust in which The Ohio State University is the charitable remainder beneficiary; and to execute as Trustee and on behalf of the University, any and all documents approved by University legal counsel, which are required to complete such gifts.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**APPOINTMENT OF TRUSTEES FOR POOLED  
INCOME TRUST FUNDS I, II, III AND IV**

Resolution No. 90-4

Synopsis: The Investments Committee recommended the reaffirmation of Board of Trustees Resolution No. 89-36 (September 2, 1988), which authorized the Vice President for Finance, the Treasurer and the Development Fund Director of Trusts and Estates of The Ohio State University to serve as Trustees for Pooled Income Funds I, II, III and IV.

WHEREAS the Board of Trustees by actions of December 4, 1970, September 10, 1976, September 7, 1979, and November 4, 1983, established Pooled Income Funds I, II, III and IV, respectively, as convenient means for University benefactors to contribute financial support to the University and at the same time retain income during their lifetime:

**NOW THEREFORE**

BE IT RESOLVED, That the Vice President for Finance, the Treasurer and the Development Fund Director of Trusts and Estates of The Ohio State University be and are hereby authorized and appointed to serve as Trustees for donors transferring property to the University's Pooled Income Funds I, II, III and IV; each to serve at the pleasure of the Board of Trustees in accordance with the terms of the instruments establishing Pooled Income Funds I, II, III and IV.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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July 7, 1989 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISORS  
AND REAPPOINTMENT OF INVESTMENT ADVISORS**

Resolution No. 90-5

**Synopsis:** The Investments Committee recommended the Appointment of Investment Advisors and Reappointment of Investment Advisors.

**WHEREAS** it is the policy of The Ohio State University to utilize the services of external Investment Advisors to assist in the management of the University's Endowment Fund; and

**WHEREAS** the Investments Committee of the Board of Trustees periodically reviews the results obtained by named external Investment Advisors and the amount of funds assigned to each of them; and

**WHEREAS** it is prudent investment policy to adjust the mix and amounts of money assigned to external Investment Advisors as economic conditions change; and

**WHEREAS** the Investments Committee has directed the Treasurer to maintain an initial amount of \$10,000,000 of the Endowment Fund in long term United States Government or Agency securities under the University Investments Policy; and

**WHEREAS** the number of external Investment Advisors and the amount of funds assigned to them shall be determined by the Board of Trustees:

**NOW THEREFORE**

**BE IT RESOLVED**, That upon the recommendation of the Investments Committee of the Board of Trustees the following named external Investment Advisors shall be appointed and the following named external Investment Advisors shall be reappointed to counsel in the management of Endowment Fund investments totaling the initial amounts indicated:

Boatmen's Trust Company	\$20,000,000
Cambridge Financial Group, Inc.	\$ 1,000,000
The Chicago Corporation	\$17,500,000
Duff and Phelps Investment Management Company	\$10,000,000
W.R. Lazard and Company (Domestic Index Fund) (New Appointment)	\$10,000,000
R. Meeder and Associates, Incorporated (Small Capitalization Index Fund) (New Appointment)	\$15,000,000
Neuberger & Berman Mutual Funds:	
Guardian Fund	\$ 2,000,000
Partners Fund	\$ 1,000,000

July 7, 1989 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISORS  
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)**

Nicholas-Applegate Capital Management	\$10,000,000
Siebel Capital Management, Incorporated	\$13,500,000
STW Fixed Income Management, Incorporated	\$20,000,000
Wells Fargo Investment Advisors (Standard and Poor 500 Index Fund) (New Appointment)	\$30,000,000
Wells Fargo Investment Advisors (International Equity Index Fund) (New Appointment)	\$10,000,000

Upon motion of Mr. Kessler, seconded by Mr. Teaforde, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Berry, Teaforde, Barone, and Kessler, and Mrs. Bowser and Ms. Casto, and a negative vote cast by Amb. Wolf.

Amb. Wolf:

Let me just add that the reasons for my negative vote were announced at the meeting of the Investments Committee and make my comments of that meeting a part of this record. "I am opposing this resolution on the basis that I am new to this committee and do not feel comfortable moving the money out of the money market when it might be better to wait a month or two."

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Mr. Kessler:

We also reviewed and discussed a report on the returns on investment for Endowment Properties presented by Mr. Nichols. And this was followed by a review of the University's land uses and boundaries. That concludes my report.

(See Appendix I for complete text of The Ohio State University Endowment Summary, June 16, 1989, page 105.)

(See Appendix II for the chart on The Ohio State University Endowment Fund Property, as of June 20, 1989, page 117.)

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**ACADEMIC AFFAIRS COMMITTEE**

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

## **Renaming of College**

### **Background**

Faculty in the College of Home Economics propose to change the name of the college to the College of Human Ecology. This proposal is in keeping with the progress of forward looking research institutions throughout the nation. The proposed change should not be construed as a rejection of home economics as it was originally conceived, but as one which will preserve the conceptual base on which our field was developed while, over time, freeing us from the impediment of the stereotype associated with our present name. Moreover, the proposed name reflects the human ecological perspective that characterizes our research and instructional efforts.

The primary purpose of an administrative name is to accurately reflect the programs of a unit and project an image congruent with the goals and mission of the college and the university. A name change also implies a modification in activity, such as changes that have occurred within programs, and reflects an active rather than reactive orientation. A name change draws attention to a unit, and provides an opportunity to explain its function and highlight its unique contributions to teaching, research, and service. Finally, a name change demonstrates the ability to adapt to changing college, university, and societal roles, norms, and expectations.

## **RENAMING OF COLLEGE**

Resolution No. 90-6

Synopsis: The Academic Affairs Committees recommended the approval of the renaming of the College of Home Economics to the College of Human Ecology.

WHEREAS the proposed name change of the College of Home Economics to the College of Human Ecology has been approved by the faculty of the College of Home Economics and by the Council on Academic Affairs; and

WHEREAS the proposed name, Human Ecology, is the name adopted by comparable units in leading institutions in the United States and Canada; and

WHEREAS the proposed name provides a conceptual framework for the mission and curriculum of the College; and

WHEREAS a name change will enhance the College's ability to recruit high quality faculty, to enroll a diverse student body, and to compete for external funds; and

WHEREAS no changes to the College's curriculum or mission are intended with the proposed name change; and

WHEREAS the University Senate approved the renaming of the College of Home Economics on June 3, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the College of Home Economics to the College of Human Ecology, effective immediately, is hereby approved.

July 7, 1989 meeting, Board of Trustees

### **RENAMING OF COLLEGE (contd)**

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **ABOLITION/CREATION OF DEPARTMENT**

Resolution No. 90-7

Synopsis: The Academic Affairs Committee recommended the approval of the abolition of the Department of Food Science and Nutrition and the creation of the new Department of Food Science and Technology.

WHEREAS the proposed abolition of the Department of Food Science and Nutrition, and the creation of the new Department of Food Science and Technology has been approved by faculty in the College of Agriculture and by the Council on Academic Affairs; and

WHEREAS the unification of the food programs is in keeping with a national trend in which virtually all other leading institutions have developed unified programs; and

WHEREAS a review of the Department of Food Science and Nutrition by the Cooperative State Research Service, U.S. Department of Agriculture, recommended that all food science and technology programs be brought together; and

WHEREAS the new Department will be able to attract more highly qualified graduate students and faculty, and to compete for external funds; and

WHEREAS the new Department will provide Ohio State with the faculty and resources necessary to become a leader nationwide in food programs; and

WHEREAS the University Senate approved this proposal on June 3, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to abolish the Department of Food Science and Nutrition and establish the Department of Food Science and Technology, effective October 1, 1989, is hereby approved.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **ABOLITION/CREATION OF DEPARTMENT**

Resolution No. 90-8

Synopsis: The Academic Affairs Committee recommended the approval of the abolition of the Department of Romance Languages and Literatures and the creation of the Department of French and Italian and the creation of the Department of Spanish and Portuguese.

July 7, 1989 meeting, Board of Trustees

#### **ABOLITION/CREATION OF DEPARTMENT (contd)**

WHEREAS the faculty of the Department of Romance Languages and Literatures, the College of Humanities and the Council on Academic Affairs have approved the abolition of the Department of Romance Languages and Literatures and the creation of a Department of French and Italian and a Department of Spanish and Portuguese; and

WHEREAS the March 1988 report of the External Review Committee for the Department of Romance Languages and Literatures states that "the current administrative arrangement will not allow growth and development and that it is in the best interests of all concerned to divide into two departments: a Department of French and Italian and a Department of Spanish and Portuguese"; and

WHEREAS the proposed structure follows a national trend to separate the languages in response to the different directions in social, political, and cultural currents in each area, and also gives support to the development of new thrusts (e.g., Latin American Studies, Caribbean Studies); and

WHEREAS all faculty within the current Department of Romance Languages and Literatures have agreed to their new Tenure Initiating Unit (TIU); and

WHEREAS the University Senate approved this proposal on June 3, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to abolish the Department of Romance Languages and Literatures and establish the Department of French and Italian and establish the Department of Spanish and Portuguese, effective July 1, 1989, is hereby approved.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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#### **AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY**

Resolution No. 90-9

Synopsis: The Academic Affairs Committee recommended the approval of the creation of a new rule 3335-9-16 and amendments to rules 3335-7-21, 3335-9-14, and 3335-9-18, and of the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on June 3, 1989, as follows:



**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

**NEW RULE**

**3335-9-16 Administrative holds.**

- (A) With the approval of the vice provost for student affairs, an administrative hold may be placed on the records or accounts of any person who fails to comply in a reasonable period of time with an obligation imposed under university rules or who has an overdue debt or fine. An administrative hold will cause certain services to be withheld, including, but not limited to: obtaining current quarter grades, registering or enrolling, being certified as eligible to obtain a degree or certificate, receiving a transcript, borrowing books or equipment, or participating in discount plans available to faculty, staff, or alumni.
- (B) The unit originating an administrative hold on the records or accounts of any person shall notify the person in writing of the obligation that is overdue by providing another itemized billing or list of actions requested, specifying when the administrative hold will become effective, and indicating the name and method of contacting an individual who can provide additional information.
- (C) Any disputes concerning the legitimacy of a hold or its processing will be resolved by the university registrar.

**AMENDED RULES**

**3335-7-21 Marks.**

(A) through (H) unchanged.

(I) "P" - progress

This mark is used to indicate that the student has shown satisfactory progress in a series or sequence of courses where the mark is not recorded until the final quarter, semester, or session of the series or sequence is completed. Until such time as a final mark is recorded, the mark of "P" shall be given and the credit shall be counted as hours only, and shall not be considered in determining a student's point-hour ratio under rule 3335-7-26 of the Administrative Code. When a final mark is submitted by the instructor, all previous "P" marks shall assume and be recorded with the value of this final mark.

**3335-9-14 Time of registration and payment of fees; penalties.**

(A) Unchanged.

- (B) Students whose fees are paid under contract with a third party will be held responsible for payment if the third party defaults or the contract is terminated.
- (C) All fees, including penalties, must be paid on or before the fourteenth day after classes begin each quarter, semester, or session. The university reserves the right to refuse registration if fees are not paid by the date on which they are due. Individual exceptions to this provision may be made only upon the approval of the vice provost for student affairs or designee.

Balanced unchanged.

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**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

3335-9-18 Return of fees.

(A) through (D) unchanged.

(E) In order to be eligible for the listed refund, the student's record and account must be free of any administrative hold (see rule 3335-9-16 of the Administrative Code). The student must present to the office of fees and deposits, within the time specified in paragraphs (B), (C), and (D) of this rule, written permission to withdraw, signed by the dean of the student's college and surrender the university-issued identification card.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**HONORARY DEGREES**

Resolution No. 90-10

Synopsis: The Academic Affairs Committee recommended the approval for awarding two honorary degrees.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of honorary degrees as listed below:

Gertrude B. Elion

Doctor of Science

Gertrude B. Elion, the recipient of the 1988 Nobel Prize in Physiology or Medicine shared with Dr. George Hitchings and Sir James Black, has been involved for over forty years in the investigation of purines and purine analogs as chemotherapeutic agents. Working in collaboration with Dr. Hitchings, she synthesized a large number of purines, including 6-mercaptopurine and thioguanine, and investigated their loci of action in micro-biological systems. 6-Mercaptopurine (6-MP) became the first purine antagonist to be useful in the treatment of acute lymphoblastic leukemia of children. Her 1954 paper which quantified the synergistic effects of purine antagonists with pyrimidine and folic acid antagonists has become a classic in the field.

Through studies of the metabolic fate of the thiopurines in vivo, Elion found explanations for some of the differences in their antitumor effectiveness in animals and man. These studies led her to the synthesis and study of azathioprine which she found to be a pro-drug for 6-MP in vivo. Azathioprine, because of its immunosuppressive properties, is now a mainstay in preventing rejection of kidney transplants.

Another product of her studies in purine metabolism was the finding that allopurinol could act as an effective xanthine oxidase inhibitor in vivo, resulting in a useful treatment for gout and other forms of hyperuricemia.

## HONORARY DEGREES (contd)

### Gertrude B. Elion (contd)

The most recent accomplishment of Elion and her group has been the discovery of the mechanism of action and selectivity of the antiherpetic agent, acyclovir, 9-(2-hydroxyethoxymethyl) guanine. Acyclovir was found to be non-toxic to normal cells but to be activated by a herpesvirus-specific thymidine kinase to a nucleotide, which after intracellular conversion to a triphosphate is a selective inhibitor of the viral DNA polymerase. She led the investigations on the absorption, distribution, metabolism and other biological properties of the drug necessary for its most efficient clinical use. Acyclovir has proven to be highly effective in the treatment of mucocutaneous herpes, genital herpes, herpes encephalitis and varicella zoster virus infections. Dr. Elion's group have also been involved in development of AZT, a life prolonging drug for victims of AIDS.

Dr. Elion has received numerous honors including honorary doctoral degrees from Brown University in 1969, George Washington University in 1969 and the University of Michigan in 1983. She currently is Scientist Emeritus from the Wellcome Research Laboratories, Research Triangle, North Carolina. However, she continues to be active in many national organizations, editorial boards and on the National Cancer Advisory Board for the National Cancer Institute.

### Stanley E. Harrison

### Doctor of Humane Letters

Mr. Stanley E. Harrison continues a career of extraordinary accomplishment in business and in civic and community affairs. His contributions to business are illustrated in his management genius in lifting a \$4 million per year high technology consulting organization to an expenditure rate of over \$250 million annually. His leadership in civic and community affairs has covered a wide spectrum of accomplishments exemplified by the advances in higher education in the Commonwealth of Virginia through programs conceived and championed by Mr. Harrison while a member and chairman of the Virginia Council of Higher Education (the Virginia model of Ohio's Board of Regents). The National Center for the Performing Arts operated by the Wolf Trap Foundation provided a sharp focus for Mr. Harrison's civic leadership. These, among numerous other personal accomplishments, cause Stanley Harrison to stand out as one of very few individuals whose career has had such a positive impact by so many widely diverse populations.

An Ohio State alumnus, Stanley E. Harrison is a native of Gallipolis, Ohio. Following a four-year tour with the U.S. Air Force, Mr. Harrison enrolled in electrical engineering at Ohio State and graduated with honors in 1958. He later earned a Masters Degree in Electrical Engineering from the University of New Mexico. During his professional career he has been associated with Battelle Memorial Institute, Sandia Laboratories, Martin-Marietta Corporation, and The BDM Corporation. At BDM, he advanced rapidly from research engineer, program manager, director of R&D, to director of operations, executive vice president, and then to president and chief operating officer. The BDM team, comprised of some 4000 persons, provides contract research and consulting services to government agencies, multinational industries and international clients.

While playing a major role in BDM's remarkable success, Mr. Harrison has served on the boards of numerous civic, arts and educational organizations as either an officer or as chair. These organizations include the Wolf Trap Foundation for the Performing Arts, Council of Higher Education for the Commonwealth of Virginia, Task Force on Science and Technology for Virginia, Committee for Tomorrow for Ohio State's College of Engineering, National Finance Council and Business Council of the Democratic National Committee, Crime Stoppers, Washington Dulles Task Force, and American Defense Preparedness Association.

July 7, 1989 meeting, Board of Trustees

### **HONORARY DEGREES (contd)**

Stanley E. Harrison (contd)

He has also been a trustee of Western Maryland College, Rio Grande College, Shenandoah College and Conservatory of Music. While many citizens have dedicated much of their adult lives to community and charitable causes, seldom is a person so actively involved in such endeavors while they are building a company which will become one of the world's pacesetters in utilizing high technology and analytical and planning methods. But, Stanley Harrison gives not just his name but his organizational genius, creative thinking, and unselfish commitment to the institutions in which he believes. Clearly, Mr. Harrison is a person who has very broad interests, a compassion for people, an uncanny ability to work within our American institutions, and a sense of commitment for human progress. He has the talents and the willingness to invest himself in worthy causes and the dedication to stay with a project until his efforts have made a difference. Based on his technical and managerial achievements alone, Mr. Harrison is most deserving of an honorary degree. He is an achiever among professional people. When his unstinting services to civil and community organizations and to his fellow human beings are added, Mr. Harrison's career exemplifies the highest ideals of the University and has brought extraordinary distinction to himself and to his alma mater. Few graduates are more deserving of this high honor.

NOW THEREFORE

BE IT RESOLVED, That honorary degrees be awarded in accordance with the recommendation at a time convenient to the University and the recipients.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **DEGREES AND CERTIFICATES - SUMMER QUARTER COMMENCEMENT**

Resolution No. 90-11

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Summer Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on August 31, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## PERSONNEL ACTIONS

Resolution No. 90-12

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the June 2, 1989 meeting of the Board, including the following Promotion, Change in Title, Appointment of Chairpersons of Departments and Division and Director of School, Reappointment of Chairpersons and Directors of Academic Faculty, Departments, Divisions and Schools, Leaves of Absence Without Salary, Leave of Absence Without Salary--Change in Dates, Leave of Absence Without Salary--Continuation, Professional Improvement Leave, Professional Improvement Leaves--Cancellation, Professional Improvement Leaves--Change in Dates, Promotions/Tenure, and Emeritus Titles as detailed in the University Budget be approved, and the 1989-90 Medical Staff Appointments/Reappointments approved June 29, 1989, by the Hospitals Board be ratified.

### Promotion

Name: RANDALL D. AYERS  
Title: Men's Head Basketball Coach  
Department: Athletics  
Effective: July 3, 1989  
Salary: \$75,000.00  
Present Position: Assistant Coach--Major, Basketball

### Change in Title

Name: JAMES R. WARMBROD  
Title: Acting Vice President and Dean  
Office/College: Agricultural Administration/Agriculture  
Effective: July 1, 1989  
Salary: N/A  
Present Position: Acting Associate Dean, Agricultural Administration and Professor, Department of Agricultural Education

### Appointment of Chairpersons of Departments and Division and Director of School

July 1, 1989 through June 30, 1990

Division of Pharmaceutics and Pharmaceutical  
Chemistry

Sylvan G. Frank\*

July 1, 1989 through June 30, 1993

School of Health, Physical Education and  
Recreation

Dorothy M. Zakrajsek

October 1, 1989 through September 30, 1990

French and Italian  
Spanish and Portuguese

Charles G. Williams\*  
Josephat B. Kubayanda\*

\*Acting Chairperson/Director

July 7, 1989 meeting, Board of Trustees

### **PERSONNEL ACTIONS (contd)**

#### **Appointment of Chairpersons of Departments and Division and Director of School (contd)**

October 1, 1989 through September 30, 1993

Electrical Engineering  
Family and Community  
Sociology

Daniel B. Hodge  
Mary G. MacVicar  
Krishnan Namboodiri

#### **Reappointment of Chairpersons and Directors of Academic Faculty, Departments, Divisions, and Schools**

July 1, 1989 through June 30, 1990

Academic Faculty of Labor Education and  
Research Services  
Family Medicine  
Horticulture  
School of Music  
School of Natural Resources  
Preventive Medicine

Susan L. Josephs\*  
Patrick J. Fahey\*  
Steven M. Still\*  
Donald Harris\*  
John F. Disinger\*  
Douglas A. Rund\*

July 1, 1989 through June 30, 1992

Division of Medicinal Chemistry and  
Pharmacognosy

Duane D. Miller

July 1, 1989 through June 30, 1993

School of Architecture  
Division of Mining Engineering

Jerrold R. Voss  
George R. St. Pierre

\*Acting Chairperson/Director

#### **Leaves of Absence Without Salary**

AMY E. SHUMAN, Associate Professor, Department of English, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a Guggenheim Fellowship.

JOSEPH T. ZEIDAN, Assistant Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a National Endowment for the Humanities grant at the American Research Center in Cairo, Egypt.

#### **Leave of Absence Without Salary--Change in Dates**

LINDA A. MIZER, Assistant Professor, Department of Veterinary Anatomy and Cellular Biology, change dates from April 13, 1989 through June 14, 1989, to April 13, 1989 through June 4, 1989.

July 7, 1989 meeting, Board of Trustees

### **PERSONNEL ACTIONS (contd)**

#### **Leave of Absence Without Salary--Continuation**

CAROL D. AUSTIN, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to continue as Director of the Ohio Department of Aging.

#### **Professional Improvement Leave**

DAVID L. BOGGS, Associate Professor, Department of Educational Studies, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

#### **Professional Improvement Leaves--Cancellation**

E. REID GILBERT, Associate Professor, Department of Theatre, effective Autumn Quarter 1989 and Winter Quarter 1990.

VIRGINIA E. RICHARDSON, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

#### **Professional Improvement Leaves--Change in Dates**

JOHN C. HUNTINGTON, Professor, Department of History of Art, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

STEPHEN V. TRACY, Professor, Department of Classics, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

#### **Promotions and Tenure**

### **COLLEGE OF BIOLOGICAL SCIENCES**

#### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Kathleen E. Kendrick, Microbiology, effective 10/1/89

Richard P. Swenson, Biochemistry, effective 10/1/89

### **COLLEGE OF BUSINESS**

#### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Robert L. Heneman, Management & Human Resources, effective 10/1/89

### **COLLEGE OF DENTISTRY**

#### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

William M. Johnston, Restorative and Prosthetic, effective 7/1/89

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Promotions/Tenure (contd)

**COLLEGE OF DENTISTRY (contd)**

PROMOTION TO ASSOCIATE PROFESSOR with TENURE (contd)

John F. Sheridan, Oral Biology, effective 7/1/89

**COLLEGE OF EDUCATION**

PROMOTION TO PROFESSOR

Jack Naglieri, Educational Services, effective 10/1/89

TENURE

Ronald L. Jacobs, Educational Studies, effective 1/1/91

**COLLEGE OF ENGINEERING**

PROMOTION TO PROFESSOR

Manjula B. Waldron, Engineering Graphics, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Fabian C. Hadipriono, Civil Engineering, effective 10/1/89

Stephen Yurkovich, Electrical Engineering, effective 10/1/89

**UNIVERSITY LIBRARIES**

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Dona Sue Straley, effective 7/1/89

**COLLEGE OF MEDICINE**

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Curtin G. Kelley, Ophthalmology, effective 7/1/89

Sally V. Rudmann, Allied Med, effective 10/1/89

TENURE

James Bova, Radiology, effective 1/15/91



July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Promotions/Tenure (contd)

**COLLEGE OF MEDICINE  
REGULAR CLINICAL FACULTY**

PROMOTION TO ASSOCIATE PROFESSOR of CLINICAL RADIOLOGY

Lucy Freedy, effective 7/1/89

**REAPPOINTMENTS**

**ASSISTANT PROFESSOR**

Thomas Bullock, Preventive Medicine, effective 9/1/90

John V. Gaueman, Preventive Medicine, effective 1/1/90

**COLLEGE OF VETERINARY MEDICINE**

**PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Gay Y. Miller, Preventive Medicine, effective 7/1/89

Daniel D. Smeak, Clinical Sciences, effective 7/1/89

Maxey Lee Wellman, Pathobiology, effective 7/1/89

**Medical Staff Appointments and Reappointments**

**Clinical Department  
ANESTHESIOLOGY**

**ATTENDING**

McDonald, John S., Chairman  
Block, Frank E. Jr  
Dahl, Mark R.  
Goldman, Ernesto  
Gupta, Bhagwandas  
Howie, Michael Britchford  
Jacoby, Jay  
Kolattukudy, Marie M.  
Lingam, Rao P.  
Reilley, Thomas E.  
Speas, Gaylynn J.  
Swan, Joseph F.  
Weaver, Joel M.  
Wilkin, Olive C.

**COURTESY**

Andrews, Madeleine  
Bodary, A. Kirk  
Brooks, Juliana H.  
Chandler, Eric M.  
Halim-Armanios, Mona Youssef  
Lopez, Luis Amado  
Zvara, David A.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
ANESTHESIOLOGY (contd)**

**LIMITED**

Basile, Alfonso J.  
Betts, Robert K.  
Camerlengo, Leon Joseph  
Cammock, Charles D.  
Campbell, Deborah A.  
Colavincenzo, Paul R.  
Durante, Jose' A.  
Falkenhain, Sandra K.  
Farina, Ralph A.  
Fetko, Mark  
Kim, Young Hee  
Mandalfino, Dominic A.  
Minehard, Isaac M.  
Murphy, James L., Jr.  
Okamura, Richard K.  
Olsoy, Rolf D.  
Park, Janice L.  
Perdzock, David A.  
Peterson, Suzanne F.  
Rague, Louis Michael, III  
Robinson-Philbeam, Pamela J.  
Runyan, Thomas E.  
Rypel, Gregory D.  
Schantz, Roger M.  
Schaut, David J.  
Sellers, Jeffrey D.  
Severyn, Steven A.  
Smith, III, Townsend  
Steinhauser, Raymond P.  
Swofford, John B.  
Waller, Daniel M.  
Zvara, David A.

**FAMILY MEDICINE**

**ATTENDING**

Fahey, Patrick  
Griggs, Roland C.  
Guthrie, Robert M.  
Martin, Ralph A.  
Sickles, Trent  
Williams, P. Tennyson

**COURTESY**

Adrian, William  
Bohlen, John  
Burrier, Gail W.  
Dils, Lawrence  
Gahman, Frank  
Geron, Michael

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
FAMILY MEDICINE (contd)**

**LIMITED**

Anderson, F. James  
Bayne, Bonnie J.  
Beggan, Bryan E.  
Cook, Joshua C.  
Garcia, Michael J.  
Grilley, Susan E.  
Kim, Doug Shi  
Koike, Vincent M.  
Lindstrom, Mark  
Smith, Roger S.  
Swain, Randall Alan  
Timson, Katrina M.  
Torres, Alex E.  
Washington, Wm. L.  
Weiss, Michael L.  
Woskobnick, Robert C.

**COURTESY (contd)**

Hedges, Charles R.  
Herwig, Theodor F.  
Lutes, Richard A.  
Moore, John W.

**INTERNAL MEDICINE**

**DIVISION - ALLERGY**

**ATTENDING**

Anderson, Clark L.  
McNeil, Donald L.

**COURTESY**

Bagenstose, Abner H., III  
Bronstein, Herbert  
Coleman, Thomas H.  
Cunningham, Charles  
Hughes, William  
Wetterauer, Damon E.

**DIVISION OF BONE MARROW TRANSPLANTATION**

**ATTENDING**

Tutschka, Peter J., Director  
Copeland, Edward A.  
Kapoor, Neena

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
INTERNAL MEDICINE (contd)

DIVISION - CARDIOLOGY

ATTENDING

Leier, Carl V., Director  
Bacon, James P.  
Barker, Raymond E.  
Binkley, Philip F.  
Boudoulas, Harisios  
Bush, Charles Arthur  
Cody, Robert J.  
Fontana, Mary E.  
Hirsch, Steven C.  
Kolibash, Albert J., Jr.  
Lewis, Richard P.  
Love, Charles J.  
Magorien, Raymond D.  
Ryan, James M.  
Schaal, Stephen F.  
Stang, John M.  
Starling, Randall C.  
Wooley, Charles F.  
Van Fossen, Douglas B.

COURTESY

Fleisman, Bruce L.  
Davakis, Nicholas J.  
Dixon, Evan W.  
Fisher, John A.  
Grabner, Harry L.  
Kirschner, Stephen D.  
Klasu, Andrew P.  
Lach, Ralph  
Murnane, Michael R.  
Nichols, Allan J.  
Rose, Stewart M.  
Terry, Richard F.

LIMITED

Arn, Anthony  
Auseon, John Charles  
Davis, William R.  
Dernbach, Frances D.  
Farhat, Assem Z.  
Good, Arnold P.  
Grodin, David L.  
Haas, Garrie J.  
Heiselman, Mary A.  
Hirsch, Steven C.  
Nichols, Allan J.  
Tice, Frank D., IV

DIVISION - COMMUNITY INTERNAL MEDICINE

ATTENDING COURTESY

Lutmer, William J.  
Grecula, Michaleen A.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
INTERNAL MEDICINE (contd)**

**DIVISION OF DERMATOLOGY**

**HONORARY**

Carr, Richard D.

**ATTENDING**

Davis, Loretta S.  
Wilkin, Jonathan K.  
Wolverton, Stephen E.  
Pellegrini, Arthur E.

**COURTESY**

Barrett, James Lloyd  
Bechtel, Mark A.  
Bisaccia, Emil  
Finn, James W.  
Gardner, Edmond A.  
Hamilton, James F.  
Hedrick, Sterling W.  
Knox, David Wayne  
Long, Roland Ellsworth  
Parks, Alan J.  
Rau, Robert C.  
Scarborough, Dwight A.  
Verona, Robert D.  
Williams, Homer E.  
Yoder, Frank W.

**LIMITED**

DeMaria, Jess Joseph  
Zuckerman, Jordan Spence

**DIVISION OF ENDOCRINOLOGY AND METABOLISM**

**ATTENDING**

George, Jack M., Director  
Cataland, Samuel  
Falko, James M.  
Jackson, Rebecca D.  
Malarkey, William B.  
O'Dorisio, Thomas M.  
Mazzaferri, Ernest L.  
Osei, Kwame  
Rao, M. Bhaskar  
Tzagournis, Manuel

**COURTESY**

Bixel, Janet K.  
Goldberg, Robert F.  
Katz, Charles M.  
Krupko, John B.  
Larrimer, John N.  
Metzger, Paul S.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
INTERNAL MEDICINE (contd)**

**DIVISION OF ENDOCRINOLOGY AND METABOLISM (contd)**

**LIMITED**

Cottrell, Daryl A.  
De Los Santos, Edith T.

**DIVISION - GASTROENTEROLOGY**

**HONORARY**

Beman, Floyd M.

**ATTENDING**

Thomas, Fred B., Director  
Caldwell, James H.  
Fromkes, John J.  
Kirkpatrick, Robert B.  
Mekhjian, Hagop S.

**COURTESY**

Levin, Douglas M.  
May, Eugene S.

**LIMITED**

Gillespie, James R.  
Miller, Scott M.  
Thomas, David B.

**DIVISION - GENERAL MEDICINE**

**ATTENDING**

Bowen, Juan M., Director  
Binkley, Wm. F.  
Birskovich, Lorraine M.  
Friedman, Barry M  
Gaeuman, John V.  
Hanyak, John P.  
Keller, Martin D.  
Kreger, Cynthia G.  
Kunin, Calvin M.  
Lefkovitz, Jeffrey A.  
Marks, Jack  
Martin, Daniel R.  
Murphy, Robert J.  
Pintz, Evelyn E.

**COURTESY**

Bansal, Girraj K.  
Boudoulas, Olga  
Davies, A. Robert  
Delaveris, Steven L.  
Dixon, Gerald F.  
Keith, Paul F.  
Lichtblau, Steven H.  
Laufman, Leslie R.  
Murphy, Link R.  
Tallo, Diane  
Guy, Jerry T.  
Edgin, Richard A.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
INTERNAL MEDICINE (contd)**

**DIVISION - GENERAL MEDICINE (contd)**

**ATTENDING (contd)**

Swindells, Susan  
Walzak, Doris E.  
Washington, Sharon E.

**LIMITED**

Ahuja, Anita  
Al-Awwa, Abdulkader  
Alfes, John C.  
Andersen, Katherine A.  
Applegate, Mary S.  
Atkinson, Lisa A.  
Blakeley, Dean D.  
Boyd, William M.  
Boyer, Stephen H.  
Briss, Peter A.  
Curren, Camilla  
Dernbach, Frances D.  
Fahig, Stephen A.  
Falkenhain, Michael E.  
Frakes, Rebecca L.  
Gandhi, Adithya K.  
Gbur, Charles J.  
Goderwis, Douglas A.  
Guertin, Michael G.  
Hagaman, Martha H.  
Hagaman, David D.  
Harris, Randall J.  
Hernandez, Raul A.  
Hoffman, Stephen P.  
Israbian, Vatche A.  
Kafity, Alfred A.  
Katz, Michael S.  
Kim, John Sang Ho  
Klejka, James P.  
Koval, Ann R.  
Ladson-Wofford, Stephanie  
Larry, John A.  
Lefkowitz, Jeffrey A.  
Mastrorade, John G.  
Moodispaw, Paul F.  
Morris, Vicki M.  
Newlin, Philip L.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
INTERNAL MEDICINE (contd)

DIVISION - GENERAL MEDICINE (contd)

LIMITED (contd)

Nicolacakis, Kathryn  
Ogrodowski, James L.  
O'Neill, Beverly V.  
Penza, Sam L.  
Peters, Mark T.  
Pope-Harman, Amy L.  
Pue, Charles A.  
Putthoff, Dara E.  
Randolph, Teigha J.  
Ridge, Jennifer M.  
Riley, Deborah K. (Smithberger)  
Rome, Michael P.  
Ronan, Patrick G.  
Rossana, CindyLou F.  
Rumancik, Mark S.  
Rupert, Robert D.  
Samoil, Daniela  
Schuster, Andreas W.  
Sedmak, Primrose A.  
Shade, William A.  
Sifford-Wilson, Sharon M.  
Sinnathamby, Sukirtharan  
Smith, Carolyn M.  
Smyke, Norman A.  
Sobecki, Lurette M.  
Spearman, Paul W.  
Spech, Richard A.  
Stebschulte, Elizabeth  
Stebschulte, Mark  
Stevens, Harold C.  
Thompson, Craig R.  
Trout, Ann M.  
Walz, Elizabeth T.  
Wachendorf, Judith M.  
Wilmer, William A.

DIVISION - HEMATOLOGY AND ONCOLOGY

ATTENDING

Balcerzak, Stanley P., Director  
Avalos, Belinda R.

COURTESY

Gams, Richard A.



July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
INTERNAL MEDICINE (contd)**

**DIVISION - HEMATOLOGY AND ONCOLOGY (contd)**

**ATTENDING (contd)**

Behrens, Brent C.  
Bouroncle, Bertha A.  
Kraut, Eric Harvey  
Metz, Earl Nelson  
Rinehart, John J.  
Sagone, Arthur L., Jr.  
Triozi, Pierre L.

**LIMITED**

Eicher, Donald M.  
Thornton, Donald E.

**DIVISION - INFECTIOUS DISEASES**

**ATTENDING**

**COURTESY**

Fass, Robert J., Director  
Fox, Barry  
Koletar, Susan L.  
Maher, William E.  
Mertz, David C.  
Para, Michael F.  
Perkins, Robert L.  
Plouffe, Joseph F.

Spagna, Vincent A.

**LIMITED**

Gianakopoulos, George J.  
Herchline, Thomas E.  
Kobe, Margaret Frieda

**INTERNAL MEDICINE - PEDIATRICS**

**LIMITED**

Curren, Camilla

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
INTERNAL MEDICINE (contd)**

**DIVISION - PULMONARY DISEASES**

**HONORARY**

Donnerberg, Roy L.

**ATTENDING**

Allen James Norman  
Davis, William B.  
Dorinsky, Paul M.  
Kindt, Gary C.  
Weiland, Jeffrey E.

**COURTESY**

Inglis, Wm. D.  
Kaufman, Jeffrey L.  
O'Brien, Richard

**LIMITED**

Diaz, Philip T.  
St. John, Roy C.

**DIVISION - RENAL DISEASES**

**ATTENDING**

Hebert, Lee, Director  
Bay, William H.  
Cosio, Fernando G.  
MacLaurin, John P.  
Middendorf, Donald F.  
Nahman, Morris, Jr.

**COURTESY**

Lewis, James W.  
Mishkind, Michael

**LIMITED**

Eng, Eudora  
Myers, Douglas P.  
Ricker, Denise M.

**DIVISION - RHEUMATOLOGY-IMMUNOLOGY**

**ATTENDING**

Whisler, Ronald L., Director  
Anderson, Clark Lawrence  
Hudson, Norman P.  
Kantor, Seth M.  
Mazanec, Daniel J.

**COURTESY**

Cunningham, Charles  
Hedrick, Sterling W.  
Hughes, William  
Messick, Richard  
Philip, Vol K.  
Thomas, Marvin H.

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
NEUROLOGY**

**ATTENDING**

Paulson, George W., Chairman  
Freidenberg, Donald  
Kissel, John T.  
Mendell, Jerry R.  
Pakalnis, Ann  
Rommohan, Kottil Walappil  
Sahenk, Zarife  
Slivka, Andrew P.

**COURTESY**

Borland, Duncan B.  
Parker, James W.  
Wise, Gary R.

**LIMITED**

Fahey, Brian  
Myer, Elizabeth L.  
Phillips, Barbara L.

**OBSTETRICS AND GYNECOLOGY**

**ATTENDING**

Gabbe, Steven G., Chairman  
Bell, David C.  
Bryan, Donald K.  
Copeland, Christopher M.  
Copeland, Larry J.  
Copeland, Wm. E. Jr.  
Copeland, Wm. Edgar  
Dodds, William G.  
Friedman, Chad I.  
Huneke, Allen L.  
Iams, Jay D.  
Kim, Moon H.  
Landon, Mark B.  
O'Shaughnessey, Richard  
Rigsby, Wm. C.  
Schmidt, Grant E.  
Teteris, Nicholas J.  
Villalon, Roberto R.  
Williams, Steven R.  
Zartman, Edwin R.  
Zuspan, Frederick P.

**COURTESY**

Baird, James N.  
Barrows, Holly J.  
Beattie, James F.  
Bell, Jeffrey G.  
Blose, Ralph D.  
Bradenberry, Keith R.  
Brannon, Robert M.  
DeVoe, Keith Jr.  
DeVoe, Stephen J.  
Eckhardt, Alfred J.  
Enrile, Leopoldo L.  
Hackett, Kevin J.  
Hanninger, Glen J.  
Harnish, Margaret S.  
Hurst, Ann M.  
Hixon, Carolyn S.  
Kelch, Harold E.  
Lomano, Jack N.  
Merryman, Wm. B.  
Mobin-Uddin, Saeeda  
Neri, Anthony S.  
Newkirk, Ernest M.  
O'Rourke, Donald Eugene

July 7, 1989 meeting, Board of Trustees

### PERSONNEL ACTIONS (contd)

#### Medical Staff Appointments and Reappointments (contd)

##### Clinical Department OBSTETRICS AND GYNECOLOGY (contd)

#### LIMITED

Ault, Kevin A.  
Barg, Michael S.  
Dearmont, Karen E.  
Diaz, Donna T.  
Douglas, James W.  
Eaton, Lynn A.  
Farringer, Bruce E.  
Fleming, Christopher M.  
Graven, Nadine E.  
Gretchen, Peggy A.  
Harrington, Beverly M.  
Hayes, Rosalind A.  
Leard, Rita A.  
Paraskos, John P.  
Pagano, Trina M.  
Parker, Michael S.  
Scalzone, John M.  
Shamley, Kirk T.  
Shibley, Kirk A.  
Sonek, Jiri D.

#### COURTESY

Perez, Antonio  
Petitt, George P.  
Richards, Stephen R.  
Robinson, Raymond E.  
Rogers, Philip A.  
Russ, John S.  
Sacolick, Alan Robert  
Sawaya, George A.  
Schaeffer, Karl Ira  
Sprague, Michael S.  
Stempel, Laurence E.  
Strafford, J. Craig  
Veach, J. Douglas  
Vorys, Nichols  
Vosburgh, Lee

#### OPHTHALMOLOGY

#### ATTENDING

Benes, Susan  
Bennett, Robert  
Bremer, Don L.  
Bruce, Robert A., Jr.  
Burns, John A.  
Cahill, Kenneth V.  
Chambers, Robert B.  
Collins, Elmer C.  
Craig, Elson L.  
Dangel, Matthew  
Davidorf, Frederick H.  
Dingle, J.B.  
Gerace, Ann  
Havener, William H.  
Hickey, Charles J.  
Huheey, Marilyn  
Kapetansky, Frederick

#### COURTESY

Baker, Norman D.  
Beran, Robin F.  
Besson, Michael J.  
Carroll, C. Patrick  
Crocì, Henry  
Davidoff, Elliot  
Denlinger, David E.  
Farber, Sanders M.  
Garvin, J. Charles  
Gupta, Mohinder K.  
Higbee, John W.  
Kitchen, Calvin B.  
Kuhr, Lora J.  
Lembach, Robert E.  
Marquardt, John L.  
McGowan, Kathleen A.  
McKinlay, Robert T.  
Minning, Carl A., Jr.

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
OPHTHALMOLOGY (contd)**

**ATTENDING (contd)**

Keates, Richard H.  
Kelley, Curtin G.  
Lembach, Richard G.  
Letson, Alan D.  
Lubow, Martin  
Moses, James L.  
O'Dair, Robert B.  
Olson, Richard S.  
Opremcak, Emil M.  
Orland, Richard C.  
Steckschulte, John R.  
Utrata, Peter J.  
Visocan, Phyllis  
Wachtel, Joel G.  
Weber, Paul A.

**COURTESY (contd)**

Richards, Paul F.  
Rogers, Gary L.  
Sherman, Roger H.  
Van Fossen, Albert W.

**LIMITED**

Allen, John G.  
Derick, Robert J.  
Erdey, Richard A.  
Fishman, Deborah R.  
George, David S.  
Giesel, John N.  
Kunesh, Michael T.  
Laxon, Leah Carol  
Lothes, Eric W.  
McAdoo, Jeffrey F.  
Meyer, Larry A.  
Oehler, Jeffrey C.  
Pajka, John T.  
Pappa, Karl S.  
Quartetti, Eric J.  
Rehmar, Alan Jay  
Ringel, David M.  
Stahl, Brian R.  
Strickler, Scott H.  
Viscardi, Jeffrey J.  
Walker, Jonathan D.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
OTOLARYNGOLOGY

**ATTENDING**

Kelly, David Robert  
Miglets, Andrew W.  
Saunders, William H.  
Siegle, Ronald J.

**COURTESY**

Birck, Herbert George  
Booth, Jack B.  
Gebhart, Don E.  
Irene, Richard T.  
Jackson, Daniel G.  
Lowery, Howard W.  
Main, Thomas Sprague  
Mechenbier, James A.

**LIMITED**

Chase, Daniel W.  
Elzinga, Darryl J.  
Griffith, Stephen R.  
Gross, William E.  
Hillsamer, Peter J.  
Rao, Mohan Kumar  
Rossi, Renee Marie  
Seitz, Curtis M.  
Whiteman, Thomas S.

**PATHOLOGY**

**ATTENDING**

Senhauser, Donald A., Chairman  
Ayres, Leona B.H.  
Baker, Peter B.  
Barth, Rolf F.  
Blazina, Janice F.  
Boesel, Carl F.  
Brandt, John T.  
Clausen, Kathryn P.  
Green, Cheryl A.  
Hammond, Phyllis M. "Sue"  
Kennedy, Melanie S.  
Keyhani-Rofagha, Sedigheh  
Liss, Leopold  
Lucas, Joel G.  
Marsh, Jr., William L.  
Neff, John C.  
Pellegrini, Arthur E.  
Richardson, Steven L.  
Sedmak, Daniel D.

**COURTESY**

Albarracin, Narciso S.  
Hamoudi, Ala B.  
Hamoudi, Ayser C.  
Qualman, Stephen J.  
Zwick, David L.

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
PATHOLOGY (contd)

ATTENDING (contd)

Sharma, Hari M.  
Spelcher, Carl E.  
Smith, Jr., Jack W.  
Svirbely, John R.  
Theil, Karl S.  
Tuttle, Steven E.  
Yates, Allan J.

LIMITED

Amra, Nasir Khalid  
Becker, William J.  
Cook, Richard L.  
Forsthoefel, Kevin F.  
Green, Thomas D.  
Hillwig, Robert J.  
Houck, Jeffrey Allen  
Isenhardt, Craig E.  
Maia, Sandra T.  
Marmaduke, David P.  
Marshall, Bruce A.  
Uhlenbrock, James M.  
Walker, Adonica Louise  
Young, Margaret S.

PEDIATRICS

HONORARY

Anderson, Homer A.

ATTENDING

Morrow, Grant, III, Chairman  
Allen, Hugh D.  
Anglin, David L.  
Barson, William J.  
Brown, Robert T.  
Cecalupo, Anthony J.  
Cohen, Barry A.  
Cory, Daniel L.  
Cromer, Barbara A.  
deLevie, Judith G.  
Kapoor, Neena  
Kern, Richard A.  
May, Susan J.  
McClead, Richard E.  
Menke, James A.  
Miller, Randy R.  
Olson, Thomas A.  
Powell, Dwight A.  
Romshe, Carolyn A.  
Ruymann, Frederick B.  
Sloan, Howard R.

COURTESY

Adams, John L.  
Baldwin, Robert M.  
Banks, Joseph H.  
Bass, Jack C.  
Batterson, Robert E.  
Bauer, Stephen R.  
Brooks, Gregory I.  
Clark, Arthur L.  
Couling, Sidney L.  
deVerteuil, Virginia K.  
Dawdy, W. David  
Del Rosario, Antonio J.  
Donaldson, Edward E.  
Donovan, Lorna F.  
Dubin, Alex R.  
Foy, James E.  
Freno, Janet A.  
Heinmiller, Daniel J.  
Henderson, Dave E.  
Herchline, Marylynn R.  
Jones, Virginia H.

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
PEDIATRICS (contd)**

**ATTENDING (contd)**

Sommer, Annemarie  
Walston, Philip D.  
Westman, Judith A.  
Zipf, William B.

**LIMITED**

Allen, Elizabeth D.  
Batisky, Donald L.  
Bolon, Claire E.  
Bolton, Eileen C.  
Bonneau, Amy J.  
Brookens, Margaret A.  
Carpenter, Denise L.  
Connor, Patricia (Benson)  
Crecelius, Jeffrey W.  
Crocetti, Guy D.  
Deutsch, David E.  
Dietrich, Ann Marie  
Dumont, Robert C.  
Eisenhut, Rand E.  
Enrione, Maria A.  
Erben, Anne N.  
Fiala, Joseph F.  
Flint, Alan J.  
Francis, Patricia A.  
Garton, Patricia N.  
Getschman, Sarah J.  
Gunyula, Lisa A.  
Hogan, Marybeth  
Hord, Jeffrey D.  
Houts, Christopher B.  
Igel, Andrea M.  
Jenkins, Catherine L.  
Kasten, Eileen F.  
Kovalchin, John P.  
Labian, LuAnn K.  
Larkner, Laura M.  
LeMay, Diane M.  
Leslie, Andrew C.  
Littleton, Anne D.  
Lo, Warren D.  
Long, William W.  
Menkus, Sharon D.  
Messick, George M.

**COURTESY (contd)**

Klinger, Robert J.  
Kulow, Keith R.  
Levitin, Milton  
Lindner, Steven E.  
MacLean, William C.  
May, Albert N.  
McIlroy, Mary A.  
Mirvis, Bruce R.  
Mormol, John L.  
Polster, L. Robert  
Shepherd, Larry M.  
Shultz, John P.  
Steiman, Gerald S.  
Stroebel, Frank W.  
Richardson, Delphis C.  
Rueger, William J  
Rupp, Germain (Garry) H.  
Vasquez, E. Silvia B.  
Wahoff, Charles G.  
Wall, Patrick M.  
Wehe, Robert A.  
Williams, Gwynette M.



**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
PEDIATRICS (contd)

LIMITED (contd)

Mosher, Gayle A.  
Murtagh, Jennifer J.  
Nahouraii, Robert A.  
Nankervis, Craig A.  
O'Dorisio, M. Sue  
Olshefski, Randal S.  
Patterson, Alonzo  
Perry, Jan E.  
Pippin, Cheryl D.  
Reiner, Rebecca L.  
Riley, Bradley J.  
Rue, Laura J.  
Segeleon, Joseph E.  
Sferra, Thomas J.  
Sheets, Eileen H.  
Shollenberger, Lee A.  
Spaeth, Karyn E.  
Smith, Dean A.  
Snyder, Catherine A.  
Southard, Richard N.  
Strand, Barbara J.  
Sullivan, Miller J.  
Wamser, MaryJo A.  
Wilson, Kyle E.  
Zibert, Sara A.

PHYSICAL MEDICINE AND REHABILITATION

ATTENDING

COURTESY

Waylonis, George W., Acting Chairperson  
Bowyer, Brian L.  
Clairmont, Albert C.  
Colachis, Sam C.  
Johnson, Ernest W.  
Matkovic, Velimir  
Mysiw, W. Jerry  
Pease, William S.

Bazzoli, Allan S.  
Powers, James J.

LIMITED

Atchison, James W.  
Clinchot, Daniel M.  
Cunningham, Dale P.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
**PHYSICAL MEDICINE AND REHABILITATION (contd)**

**LIMITED (contd)**

Doddy, Karyn R.  
Fitz, William R.  
Gwinn, Michael D.  
Haddock, David G.  
Jenks, Jeffrey P.  
Kaplansky, Bryan D.  
McDonough, Nancy K.  
Reecer, Mark V.  
Rindler, Julie P.  
Rosenberg, Sandra K.  
Tipton, David B.  
Venesy, Deborah A.  
Wei, Frank Y.  
Whitten, Robert R., Jr.  
Wilson, Charleen

**PREVENTIVE MEDICINE**

**ATTENDING**

**COURTESY**

Rund, Douglas A., Acting Chairman  
Brown, Charles G.  
Bullock, Thomas R.  
Gabriel, Paul W.  
Gaeuman, John V.  
Hall, William L.  
Hoekstra, James W.  
Keller, Martin D.  
Kelley, Michael T.  
Martin, Daniel R.  
Murphy, Robert J.  
Nelson, Richard N.  
Roberts, David E.  
Rudy, Russell M.  
Strauss, Richard H.  
VanLigten, Peter F.  
Werman, Howard A.

Charles, Doris I.

**LIMITED**

Miller, Roger A.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
PREVENTIVE MEDICINE (contd)**

**DIVISION-EMERGENCY MEDICINE**

**ATTENDING**

**COURTESY**

Nelson, Richard N., Acting Director  
Brown, Charles G.  
Bullock, Thomas R.  
Gabriel, Paul W.  
Griffith, Robert F.  
Hoekstra, James W.  
Kelley, Michael T.  
Roberts, David E.  
Rudy, Russell M.  
Rund, Douglas A.  
VanLigten, Peter F.  
Werman, Howard A.

Lee, Young-Mee

**LIMITED**

Bhat, Prashanth  
Bowman, Kevin K.  
Darnell, Mark T.  
Davies, David E.  
Dick, Michael R.  
Dreyer, Jeffrey R.  
Heck, Robert W.  
Johnson, Diana M.  
Lewis, David K., II  
Little, Charles M.  
Luu, Tuan Anh  
Messick, Genevieve M.  
Nejman, Grace D.  
Pirrallo, Ronald G.  
Smith, Keith R.  
Spittler, Genevieve M.  
Swart, Gary L.

**DIVISION - SPORTS MEDICINE**

**ATTENDING**

Murphy, Robert J., Director  
Strauss, Richard

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
PSYCHIATRY

**ATTENDING**

Nasrallah, Henry A., Chairman  
Churchill, Cynthia M.  
Coffman, Jeffrey A.  
Dilsaver, Steven C.  
Jaeckle, Richard S.  
Jones, Bruce A.  
Larson, Chris N.  
Levy, Alan B.  
Mavassakalian, Matig R.  
Ohringer, Shari R.  
Olson, Stephen C.  
Pariser, Stephen F.  
Pinta, Emil R.  
Schmidt, Helmut  
Shy, Kathy E.  
Stern, Stephen L.  
Weller, Ronald A.

**COURTESY**

Goldberg, Donald

**LIMITED**

Axelson, David B.  
Balke, Len D.  
Bush, Gladys A.  
deGroot, Christopher M.  
DelMedico, Valerie J.  
Evans, Tina L.  
Fayyad, John Antoine  
Gemma, Steven M.  
Guthrie, Julie A.  
Hadaway, Catherine A.  
Haidar, Said N.  
Hamill, John M.  
Hurst, Elizabeth C.  
Hurst, Mark A.  
Jolin, Edith M.  
Jurjus, George J.  
Kormanik, Carmela J.  
Lettvin, Daniel S.  
McCafferty, Mary J.  
McCoy, Lane M.  
McIntosh, Sara S. Alford-  
Miller, Margaret M.  
Ohringer, Sari R.  
Peters, Marilyn J.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

Clinical Department  
PSYCHIATRY (contd)

**LIMITED (contd)**

Reichenbacher, Thomas M.  
Sanchez, Laura E.  
Schwarzkopf, Steven B.  
Tamimi, Raed R.  
Tumuluru, Rameshwari V.  
Werner, Lisa M.  
Yaylayan, Shahnour A.

**DIVISION - CHILD PSYCHIATRY**

**ATTENDING**

Weller, Elizabeth B., Director  
Arnold, L. Eugene  
Koizumi, Hisako  
Tolbert, Herman A.

**LIMITED**

Bush, Gladys  
Levy, Sue J.

**RADIOLOGY**

**DIVISION - DIAGNOSTIC RADIOLOGY**

**ATTENDING**

Christoforidis, A. John  
Beltran, Javier  
Bennett, William F.  
Bova, James G.  
Brogan, Martha A.  
Chakeres, Donald W.  
Cunningham, Jerome J.  
Freedy, Lucy R.  
Mueller, Charles F.  
Ragosin, Robert J.  
Stockum, Alfred E.  
Van Aman, Michael E.

**COURTESY**

Frye, Thomas R.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Division  
RADIOLOGY (contd)

DIVISION - DIAGNOSTIC RADIOLOGY (contd)

LIMITED

Budde, Richard B.  
Campanini, D. Scott  
Conover, Steven R.  
Hackworth, Craig A.  
Hughes, Steven R.  
Irsik, Ronald D.  
Magee, David J.  
McConnell, Charles T.  
McGhee, Robert B.  
Morris, Christopher S.  
Oehler, Mary C.  
Pema, Peter J.  
Poulos, Andrew G.  
Sodd, Anthony N.  
White, Daniel R.  
Wong, Gene (Eugene) C.

DIVISION - RADIATION ONCOLOGY

ATTENDING

Gahbauer, Reinhard A.  
Grecula, John C.  
Hodgson, Sheila E.  
Pieters, Richard S., Jr.

LIMITED

Bauer-Giffin, Constance J.  
Grecula, John C.

**SURGERY**

DIVISION - GENERAL SURGERY

LIMITED

Balch, Daniel R.  
Brinkman, John B.  
Campbell, Kevin G.  
Gregory, James S.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

Medical Staff Appointments and Reappointments (contd)

Clinical Department  
SURGERY (contd)

**DIVISION - GENERAL SURGERY (contd)**

**LIMITED (contd)**

Guse, Thomas R.  
Gustafson, Michael L.  
Huang, Emina Hui-Na  
Kalanges, Lauri K.  
Kelly, William B.  
Kogan, Michael G.  
Lee, Lorri A.  
Leppink, Douglas M.  
Levitt, Jodie K.  
Myers, Paul E.  
Offord, James P.  
Ohye, Richard G.  
Pierotti, Stephen E.  
Pollifrone, David L.  
Rea, Franco R.  
Samani, Daniel J.  
Scharf, Wm. R.  
Teitelbaum, Daniel H.  
Ulrich, Jeffrey C.  
Vasko, Susan D.  
Vevon, Peter A.  
Ward, Linda A.  
Wilson, Gary A.  
Young, James R.

**DIVISION - NEUROLOGIC SURGERY**

**LIMITED**

Behrmann, Donald L.  
Brightman, Rebecca P.  
Finneran, Mark T.  
James, Steven M.  
Livingston, Kimberly  
McGregor, John M.  
Mullin, Bradford B.

July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

Clinical Department  
SURGERY (contd)

**DIVISION - SURGICAL ONCOLOGY**

**LIMITED**

Chevinsky, Aaron H.  
Lavalle, Gregory J.

**DIVISION - ORTHOPEDIC SURGERY**

**LIMITED**

Curtis, Steven B.  
DiBenedetto, Michael R.  
Lettvin, Charles L.  
Li, Lawrence Kuo-Chi  
Lauro, Gregory R.  
Lefkowitz, Michael S.  
MacDougall, James B.  
Mirly, Harvey L.  
Watson, Larry W.  
Wittbrodt, David J.

**DIVISION - PEDIATRIC SURGERY**

**LIMITED**

Schropp, Kurt P.  
Upp, James R.

**DIVISION - PLASTIC SURGERY**

**LIMITED**

Back, Lyle M.  
Choucair, Ramsey J.  
Davies, Barbara L.  
McMahan, James D.



July 7, 1989 meeting, Board of Trustees

**PERSONNEL ACTIONS (contd)**

**Medical Staff Appointments and Reappointments (contd)**

**Clinical Department  
SURGERY (contd)**

**DIVISION - THORACIC & CARDIOVASCULAR SURGERY**

**LIMITED**

Buckley, Donald C.  
Haan, Constance K.  
Matheny, Robert G.

**DIVISION - UROLOGY**

**LIMITED**

Deighton, Daniel A.  
Klump, Richard  
Page, Mark

**DIVISION - VASCULAR**

**LIMITED**

Rigdon, Edward E.

**COLLEGE OF DENTISTRY**

**DIVISION - GENERAL DENTISTRY**

**ATTENDING**

**COURTESY**

Wallace, William R., Chairman  
App, George Russell  
Allen, Carl Michael  
DaBreo, Ernest L.  
Horton, John Edward  
Jolly, Daniel  
Marquard, James  
Weaver, Joel M.  
Vessels, Robert Carl

Neal, Clarence J., Jr.  
Schroeder, Kathleen L.  
Walters, John D.

**LIMITED**

Davis, John B.  
Fleser, Carl R.  
Nemecek, Marcia M.  
Wohlford, Mark E.

July 7, 1989 meeting, Board of Trustees

## PERSONNEL ACTIONS (contd)

### Medical Staff Appointments and Reappointments (contd)

#### COLLEGE OF DENTISTRY (contd)

##### DIVISION - ORAL AND MAXILLOFACIAL SURGERY

###### ATTENDING

Peterson, Larry J., Director  
Anderson, Douglas R.  
Carnes, Allen D.  
Evans, Thomas W.  
Feinberg, Stephen E.  
Larsen, Peter R.  
Offenburger, Greg L.  
Montgomery, Robert D.  
Racey, Gary L.  
Steinberg, Barry  
Troiano, Marlin F.  
Wallace, William R.

###### COURTESY

Cheek, John Arthur  
Fraser, Bruce A.  
Kaye, William R.  
Murphy, T. Michael  
Scheetz, Richard E. Jr.

###### LIMITED

Amborski, James D.  
Anderson, Mark W.  
Hum, Scott A.  
Loetscher, Christian A.  
Purdy, William David  
Stroncsek, Michael J.  
Towning, Larry D.  
Wohlford, Mark E.

### Emeritus Titles

BERTHA A. BOURONCLE, Department of Internal Medicine, with the title Professor Emeritus, effective July 1, 1989.

NICHOLAS M. STEPHIN, Cooperative Extension Service, with the title Associate Professor Emeritus, effective July 1, 1989.

HARRY M. SAGE, JR., Department of Ophthalmology, with the title Clinical Associate Professor Emeritus, effective July 1, 1989.

Upon motion of Ms. Casto, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## RESOLUTION IN MEMORIAM

Resolution No. 90-13

**Synopsis:** The Academic Affairs Committee recommended the approval of a Resolution in Memoriam for Frances F. Hinman.

**RESOLVED,** That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Frances F. Hinman

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on May 20, 1989, of Frances F. Hinman, Instructor Emeritus in the Cooperative Extension Service.

Frances Hinman was born on February 11, 1911, in Osage, Iowa. She received her B.A. in Home Economics Education from Iowa State University in 1940; then spent two years as a Home Economics and English teacher in Bancroft, Iowa. Mrs. Hinman began her Extension experience when she joined the faculty at The Ohio State University in 1962 as an Assistant Instructor in Portage County. She assumed the responsibilities of a County Extension Agent, Home Economics in 1963 and continued in this position until her retirement in 1980, at which time she was named Instructor Emeritus in 1980.

Mrs. Hinman was an active member of garden groups, the Farm Bureau organization and she served on the county board of trustees. Her contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her co-workers and many thousands of Ohio citizens throughout the length and breadth of Portage County.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Frances Hinman. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Ms. Casto, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## STUDENT AFFAIRS COMMITTEE REPORT

Mr. Barone:

Mr. Chairman, the Student Affairs Committee met this morning and we are honored to have Dr. Louise Douce who gave a summary of Counseling and Consultation Center and what we expect in counseling at Ohio State University. I believe that everybody that was present was amazed at what Dr. Douce is doing here at Ohio State University in counseling. They offer students individual counseling for career planning, for personal or social problems that they may have, and counseling for couples. Group counseling is available for career information and planning, more effective use of academic potential, test taking anxiety, effective study, participation in short term and ongoing groups and workshops which focus on a variety of topics. I was amazed to find out that Ohio State University faculty are entitled to the same counseling services. Also, the Ohio State graduates, on a much shorter basis, are

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Barone: (contd)

invited to come in and participate. Dr. Douce is most interested in bringing out these things. It is probably one of the busiest areas in the University. Since we are one of the largest universities, the counseling and the area in which the counseling is done is, of course, very limited. They are short on counselors and there is somewhat of a waiting period which she tries to eliminate. Under the circumstances she works with, and the function which she performs in helping the students, graduate students faculty, and even past graduate students, I wish to report she is doing an excellent and tremendous job.

Mrs. Bowser:

This is academic counseling?

Mr. Teaford:

No, this is all psychological counseling. She has ten psychologist on staff and 20 graduate students in psychology who work on her staff as well.

President Jennings:

Not to suggest that all of these cases are serious mental illness. A lot of them are the normal problems that young people have.

Mr. Teaford:

In fact, they refer out all serious cases. They refer them to the medical facility.

Mr. Barone:

She has also been working with groups in the AIDS program and counseling on AIDS.

Mr. Teaford:

Dr. Douce said that it is reported that the national average among college students is 1 out of 300 are HIV positive.

President Jennings:

In Ohio, and nobody quite knows why, we have a larger incident per capita of AIDS at the 16-24 year olds group in the nation. Nobody quite knows why, but our incidents of AIDS in central Ohio is higher, that is not just Ohio State.

Mr. Barone:

She also stated that the staff now has national reputation, and that Ohio State University is probably one of the leaders in counseling of all the universities. I think we all should be proud of the results she has had with these students. I want this Board to know that because I had no idea that we had a a counseling program of this capacity here at the Ohio State University. Any more questions?

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Berry:

Could I say something, Mr. Chairman? In that regard, about a month ago I was in another meeting of another sort and they showed a film -- I am going to say it was produced by the University of Virginia, but I may be incorrect on the school. It was about a 15 minute film on AIDS and college students. It was quite an effective film. If you would like for me to get a hold of a copy, I would be glad to follow up on it. This was a film that was shown wide-spread to the student body. It was quite effective.

President Jennings:

We have similar activities in our summer orientation program where these students come in and there is an orientation period devoted to AIDS and AIDS education, as well as substance abuse.

Mr. Barone:

Thank you, Mr. Chairman. At this time I would like to call for the report of the Interprofessional Council by Steve Dibert.

Mr. Steve Sloan:

Hi, I am Steven Sloan not Steve Dibert. I guess that is getting kind of common now. Steve is looking forward to next year because he will have a more flexible schedule and will be able to go to more of these meetings. I am also looking forward to next year. This past school year I always seemed to face a choice, I could study and or I could pay bills and do paper work. Since I hate paper work, I studied. I studied so much, as a matter of fact, my performance was so noteworthy, now I have several collection agencies interested in me. Thanks, I hope my creditors are as good humored as you are.

Today, I thought that instead of talking about the IPC, I would instead talk about our constituents, that is the professional students. We recently visited each professional school and we asked and asked, until we finally found someone who could help us, for information about just a couple of students -- their most highly decorated students, as I would like to say. Of course, they assured me that all of their students were excellent and worthy of recognition. But, we persisted in our request for just a few students that the school itself was proud of. In fairness to their concerns, you should be informed that each school has more than just a couple of students worthy of recognition. In a somewhat arbitrary manner we took what the schools gave us and selected just one student from each school to mention.

You will see the professional students excel in their profession, in research activities, and also in service, both at a national and an international level. In no particular order I will go through each of these students. In the Veterinary School's Linda Lehmkuhl won first place in a national Hills Nutrition competition as well as the IAM's Paw Print Award, which actually looks like a paw. The Law School's Mimi Dane, who is the Editor and Chief of their law journal was selected and accepted a position as a Clerk for U.S. District Court Judge Lewis Pollack, in the Easter District of Pennsylvania. Judge Pollack is noted for his success in having several of his Clerks go onto clerk for the Supreme Court of the U.S. So the Law School is very happy about that. The Optometry School's Mark Fenton, who is a third year student, is

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### **STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Sloan: (contd)

going to Kenya this summer with the Students Voluntary Optometrical Service for Humanity, also known as S-VOSH. He will fit people in Kenya with glasses that have been donated here in the States. The Dental School's Donald Morgan presented his research at the National Meeting of American Association for Dental Research. He also was selected to compete in the students clinical competition of the American Dental Association. The Medical School's Shaila Patel, a classmate of Sophia's and mine, was selected for a one year research fellowship at the Howard Hughes Medical Institute at the National Institutes of Health. Last year only 34 medical students were selected for this in the United States.

I would like to thank the various people who helped me: Terry Camelford from the Veterinary School; Associate Dean for Admissions Jack Henderson from the Law School; Associate Dean Jack King from the Optometry School; Pat Burkhart from Alumni Affairs; and Dr. Clayman both of the Dental School, and Donna Cavell of the Medical School. I would also like to thank the student for their excellence.

That would have concluded my report except that earlier today I heard that the Board passed a tuition increase. For professional students whose tuition is increasing at a fairly rapid rate, I just wanted to make a few comments. First of all we are disappointed in that. Obviously that means all of us will go further into debt than we already are. But besides that obvious point, I think it is important to note that this may effect the kind of students who apply for professional schools, in particular minorities and women. I think it may have more adverse effects on those people. Second, it may hurt Ohio State's ability to compete with other schools for keeping Ohio residents in Ohio, because right now one of the main competitive advantages is the price differential. If that continues to decrease, we may lose one of our competitive advantages, certainly not the only. Thank you, that does conclude my report.

Mr. Barone:

Thank you, Steve. At this time I would like to call upon Luke Evans for the Council of Graduate Students.

Mr. Luke Evans:

Good afternoon. Let me begin by saying that we, the officers of the Council of Graduate Students, look forward to representing graduate students here at Ohio State, as well as exercising leadership in the National Association of Graduate and Professional Students during this coming academic year. Ohio State may claim they have the largest graduate school in the nation, but we want to claim it is among the best. Toward this end we will endeavor, along with others at this University, to protect and enhance the quality of both the academic and non-academic aspects of graduate education here at Ohio State. Our aim is not to do so at the expense of other significant groups in the university community. If our efforts are to have merit, they must promote the quality and image of the University as a whole, as well as that of graduate education. Of course, we expect the same consideration from other groups working in the University community.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

Our efforts to address the academic aspects of graduate education will continue primarily in our annual programs such as the Autumn Graduate Student Orientation, Winter Workshops on topics of academic and professional concern to graduate students, and a Spring Graduate Research Forum. In addition to CGS programs, we will continue to support and co-sponsor campus events that enhance the academic quality of this University such as the TA Orientation and the TA Workshop Series sponsored by the Center for Teaching Excellence. More on the informal side, we are developing strategies aimed at promoting graduate student mentoring both from faculty and senior graduate students for those currently entering and matriculating through their programs. As far as non-academic aspects in graduate education of concern, we will continue to address such matters as the availability of financial aid, affordable, quality student health insurance for students and their dependents, child care, and rising cost of graduate housing. In regard to pertinent financial aid, we continue to monitor the thinking of Congress on pertinent matters as national service, which on some bills threatens financial aid programs as they currently exist, and efforts to restore the deductibility of interest on educational loans. Many of these student loans amount to the size of small house mortgages that have to be paid back in 10-year periods. Deductibility of interest on educational loans would ease the burden of repayment, and not act as a potential barrier for those who need to further their education.

As for student health insurance, NAGS is currently scheduled to mail its new health insurance plan to graduate students nationwide during the latter half of July. We are currently developing a brochure that would compare the major features of Ohio State's policy with that of NAGS for those students who may have basic question about these policies.

Our summer activities are concentrated around interviewing and appointing graduate students to University committees and preparing our annual graduate student orientation reception. We are dedicated, along with others in the University, toward doing all that we can to assure that new graduate students enter their academic and graduate and associate work with a sense of confidence and enthusiasm. We cannot over emphasize how important it is -- to new graduate students in particular, and the University in general -- to get off to a good start. Finally, contrary to popular belief, I did not grow this beard because Roger had one. I simply got tired of the preppy, yuppy look and decided to look a little closer to my chronological age. Do you have any questions?

Mr. Barone:

Thank you, Luke. The Undergraduate Student Government, David Straub.

Mr. David Straub:

Trustees, Mr. President, distinguished guests, the first thing I would like to do this afternoon is introduce my running mate who I ran with and we went through that USG ordeal of the election process for student government. Bart Deems is back here and he is Vice President of Undergraduate Student Government. Being the last report, I feel I can fill out the remainder of the day til about 5 o'clock, since that it typically when we get off work. I would just like to talk about a few things actually.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

Some of the projects that USG is taking on right now -- or one of the concerns rather -- is an information program to freshmen. And I know we have the freshmen orientation program, but at that time we feel that students are consumed with so much information it is hard for them to decipher what they need to know. Being that we have such a diverse body, we would like to send an information package out to these students. We are in the process currently of sending out a magazine, if you will, of the student leaders around the University. Those will be from the different areas at the University expressing interest in their organizations to those students that may be interested and so on. It is in the rough stages right now, but it is a very important program that we plan on sending to all the incoming freshmen informing them about the activities that they can get involved in.

Another one of the programs that we plan on implementing, through this program with the freshmen, is a parking program. It is a car-pool program that we would like to promote through the student government. Parking is definitely a problem on this campus as we all know. To alleviate some of this we want to set up a data base within the student government office of students that are interested in car-pooling to and from the University. We are coordinating a program with the office of Traffic and Parking so students will be able to link up with each other when departure and arrival times will be similar.

Another program that we have underway is the Student Political Action Committee. Right now at the national level we don't know where political committees will be standing in the near future. But the major concern of the program is to get students actively involved in the voting process, if you will, and involved in the political arena.

In my closing comments I would like to express one of the concerns that I have as a student and as a freshman coming to Ohio State. I came to Ohio State from a high school right in the Central Ohio area and we did not really have a choice in selecting courses. Every quarter a student goes through the process of selecting classes which they will be taking for the quarter, maybe an hour a day or two hours a day, possibly. They receive a package which is a course offering guide, a master schedule, if you will, of the classes that are being offered. As you open it up, it has a list of numbers and times you can take the course. One of the problems I see with this whole system -- and it has its merits -- is that a student has limited information about the course they are taking which. The Course Offerings Handbook has limited information about the classes that a student will be taking in the upcoming quarter, very brief. My analogy with this is that I can find more out about a \$15 blouse at Sears, then I could about a course that I will be spending about an hour a day in at The Ohio State University. That is a definite concern. The information in this publication is inadequate and the students don't have enough information about their instructors. If you were going to invest in a company you would not spend \$500, for example, let's say on IBM -- you would want a little more information than the price of that stock the week before. So you would talk to your broker and read up on it and see tabloids that had information regarding that stock. A student investing \$500 a quarter at the University, which they are doing, has very limited information. The information here is basically the time the course is offered, and possibly the teacher that is teaching the course, and possibly not. One of my goals is to have teacher evaluations published for students so they can have some information about the teachers. I think this can alleviate a lot of this problem. This is just one of the



**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub: (contd)

concerns that we have right now. I am kind of passionate towards this issue because the students are passionate about knowing more about their instructors than they do. It is our belief that the instruction is of high quality, but the information and learning styles of students differ. If we could provide this information to the students, then the students will be able to learn at a better rate than they do currently. That basically concludes my report. I hope you have a great afternoon and if you have any questions, I open the floor.

Ms. Davis:

David, I have a question. The teaching evaluations that you have suggested, what is the process behind that. From what I can see and in talking to different students, a good teacher by student definition is a popular one, but isn't necessarily one who really gets across that material in the best way. Most times the difficult teachers, which aren't necessarily the most popular ones, are the best teachers for that material.

David Straub:

Exactly. From my position, I make the assumption that the teachers are of good quality and can teach the information to the students. We assume that is done through the University system in hiring the teachers that they hire. I guess my response is that we assume every teacher teaching Econ 200 is of good stature and a good teacher. It is up to the student then to select the teacher that is better qualified. It is not our job to make sure the best teacher is teaching the most students, but to get the students with the teacher that is best suited for them. I can give you an example. I usually don't talk about this, and I would rather not, but I am a dyslexic student, and I am enrolled in the Office of Disability Services. I learn in a different way than you may learn. Last quarter I had Roger Blackwell who taught Marketing 650. He is a very eloquent speaker and I learned a great deal from him. Other students learn in a different fashion. There is a variation on the learning capabilities of different students. So what this program will do is help get those bumps and ridges out of the selection process and get the students with the teachers that are best qualified. Right now this is at a very beginning stage. As my office only last for 365 days, I see this as a program that may take a lot longer to develop. I just want to bring it to your attention. It is a major concern of mine and the student population. That basically concludes my report. Any other questions?

Mr. Barone:

David, would you sell your evaluation system to the University?

David Straub:

Yes I would. And I would sell it to everyone along the way.

Mr. Barone:

Any other questions?

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

President Jennings:

I encourage David and the student government to continue on with this project. First of all, the student evaluations that are used in tenure, promotion, and salary generally separate out the good teachers from the popular teachers. Obviously, there are some exceptions that have to be discounted. Generally, you will find that student evaluations of the faculty members' teaching quality is consistent with the faculty members' evaluation. Most students do think about what they have learned. There are some exceptions obviously. Secondly, this publicizing teacher evaluations has been done before at Ohio State a long time ago. It is not all that unusual in America today. There are certain personnel safeguards that have to be incorporated into it. I know David is looking into that. Other universities have gone through this. I am confident that student evaluations on the average and in general do separate the good teachers from just the popular ones. What we would hope is that all our teachers are good and all are popular, but probably even at Ohio State we might have one or two that has had a bad year.

David Straub:

There is one other point I would like to make regarding this matter. Other student governments at other universities have taken it upon themselves to do this teacher evaluation process. It has not been, I guess, as scientific as I think it should be. It is my concern that it be done through the university rather than student government submitting forms to students, passing around wrong information. I really would like to see the University take a close look at this project, rather than us doing it on our own and not being as efficient as it should be. I think it is a very delicate situation and I am willing to work with whomever to get this program on its way.

Mr. Teaford:

One point that you make -- my son has a learning disability, so I can relate to what you are saying. People do learn differently; therefore, instructors have different gifts that are better for some students than others. That is an important aspect of evaluating teachers, which I never heard expressed before.

President Jennings:

There are different ways of learning; there are also personality clashes. David did mention Dr. Roger Blackwell who has one of the most popular courses on campus, also one of the best courses on campus. It is also interesting to note that Roger has done some experiments with his course. His course has about 800 or 900 students. He has done some experiments with the same course given with roughly 20 students. He ends up with no difference in knowledge gained between the students of the class of 20 and the class of 900. Every instructor is not as good as Roger.

Mr. Barone:

Any further questions? Thank you, David.

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July 7, 1989 meeting, Board of Trustees

## **AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mrs. Bowser:

Dr. Warmbrod is with us, do you want to stand? This is our Acting Dean of Agriculture, and he is with us this morning to present the evolution of the Department of Food Science and Technology which we have already voted on. It does present an interesting aspect of our modern technology and that agriculture needs to move, as all disciplines do, in that area of growing concern. This is, I think, an excellent example of some good work done in the college--drawing two faculties together and making one faculty out of it. One of the interesting things he told us is that the enrollment in that department has doubled in the last several years, so that was an interesting aspect.

We asked him about his strategic plan for the College and that is moving along and hopefully by the end of Autumn Quarter we should have some finished material along those lines.

We had a discussion this morning about the Legislature's funding of Agriculture -- Cooperative Extension and OARDC. And we are very thankful that we received the funding we did. We are most appreciative of the Legislature for the funding we received. I think that completes my Committee report unless there are any questions.

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## **FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Kessler:

The Fiscal Affairs Committee is recommending for approval the following resolutions:

### **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 90-14

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for May 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the month of May 1989 be approved.

July 7, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

**SUMMARY FOR MAY 1989**

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	121	\$ 9,190,612.15
Engineering Experiment Station	69	\$ 1,221,004.00
Total	190	\$10,411,616.15

**The Ohio State University Development Fund**

**Establishment of Named Funds**

The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering (Aid the research, teaching and service programs/facilities)	\$ 47,000.00
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The John M. Shepherd Athletic Scholarship Fund (Grant-in-aid scholarships for members of the men's varsity basketball team)	\$ 25,000.00
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The Dr. A. J. Christoforidis Lectureship in Radiology (Lectureship on advances in radiology and related educational activities)	\$ 15,000.00
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The Margaret Carter Speer and William Raymond Speer Endowment Fund (Assist in satisfying the housing needs of the Alumnae Scholarship House Residents)	\$ 15,000.00
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The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund (To provide awards for students in the unit demonstrating outstanding leadership skills and excellent academic achievement)	\$ 5,000.00
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**Change in Description of Named Fund**

**The Sigmund & Rita Munster and Family Athletic Endowment Fund**

July 7, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

SUMMARY FOR MAY 1989 (contd)

Background (contd)

The Ohio State University Foundation

Approval of Description and Establishment of Fund

The H. Justin Davidson Fellowship Fund

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

**Report - May 1989**

#### **Federal Research Contracts/Grants**

\$1,823,000.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Altan), 1 May 1989 through 30 April 1990. (Project 767477 - Continuation)

\$584,158.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XI, Center for Human Resource Research (R. J. Olsen), 1 October 1988 through 30 September 1990. (Project 766448 - Continuation)

\$207,265.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Vascular Healing: Cell and Rheologic Factors, Department of Internal Medicine (D. L. Fry), 1 May 1989 through 30 April 1990. (Project 766884 - Continuation)

\$197,013.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Cytotoxic Cocarcinogenic and Antileukemic Agents, Department of Chemistry (L. A. Paquette), 1 June 1989 through 31 May 1990. (Project 763284 - Continuation)

\$179,763.00 - Department of the Air Force, Washington, D.C., "Big Ear" Range Studies, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 3 May 1989 through 2 August 1990. (Project 767467 - New)

\$172,432.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Polycondensed Alicyclics and Their Antiviral Role, Department of Chemistry (L. A. Paquette), 1 May 1989 through 30 April 1990. (Project 763920 - Continuation)

\$151,953.00 - Department of Health and Human Services, National Institute of Environmental Health Sciences, Bethesda, Maryland, Genotoxicity in Human Fetal Brain, Dermis, and Kidney Cells, Department of Radiology (S. M. D'Ambrosio and A. A. Wani), 1 June 1989 through 31 May 1990. (Project 763673 - Continuation)

\$138,889.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1989 through 30 June 1990. (Project 765529 - Continuation)

\$135,000.00 - National Science Foundation, Washington, D.C., The Spectroscopy of Chemical Intermediates and Other Transient Species, Department of Chemistry (T. A. Miller), 1 December 1989 through 30 November 1990. (Project 764814 - Continuation)

\$132,813.00 - National Science Foundation, Washington, D.C., Social Psychophysiology Research Program: Phase II, Department of Psychology (J. T. Cacioppo), 1 February 1989 through 28 February 1990. (Project 767272 - Continuation)

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

**\$127,619.00** - National Science Foundation, Washington, D.C., Optimal Design of Large-Scaled Structures with Multianalysis-Type Constraints, Department of Civil Engineering (O. G. McGee), 15 April 1989 through 31 March 1992. (Project 767449 - New)

**\$126,000.00** - National Science Foundation, Washington, D.C., Nuclear Physics at Low and Intermediate Energies, Including the Hadron Charge Exchange and Radiative Capture Programs, Department of Physics (E. R. Sugarbaker), 1 December 1989 through 30 November 1990. (Project 766752 - Continuation)

**\$124,809.00** - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Dietary Fat: Physiological Function, Department of Physiological Chemistry (H. W. Sprecher), 1 May 1989 through 30 April 1990. (Project 764415 - Continuation)

**\$120,000.00** - Department of Agriculture, Science and Education, Washington, D.C., Validation of a Stochastic Model for Optimizing Greenhouse Pest Management, Department of Entomology and Department of Entomology - OARDC (D. J. Horn) and Department of Statistics (R. Bartoszynski and D. K. Pearl), 1 July 1989 through 30 June 1991. (Project 767498 - New)

**\$120,000.00** - Department of Energy, Argonne, Illinois, The Hydrogen Induced Stress Corrosion Cracking of Nickel Base Alloys in High Temperature Water, Department of Materials Science and Engineering (P. G. Shewmon and S. S. Smialowska), 1 June 1989 through 31 May 1990. (Project 766068 - Continuation)

**\$108,000.00** - National Science Foundation, Washington, D.C., The Chemistry and Electrochemistry of Hot Corrosion of Metals, Department of Materials Science and Engineering (R. A. Rapp), 1 August 1989 through 31 July 1990. (Project 766299 - Continuation)

**\$106,300.00** - National Science Foundation, Washington, D.C., Basic Mechanisms of Sliding Friction and Wear, Department of Materials Science and Engineering (D. A. Rigney), 15 March 1988 through 28 February 1990. (Project 766644 - Continuation)

**\$101,849.00** - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Biochemical Probes of the Active Site of Aromatase, College of Pharmacy (R. W. Brueggemeier and S. Black), 1 May 1989 through 30 April 1990. (Project 766718 - Continuation)

**\$100,000.00** - National Science Foundation, Washington, D.C., Targeting of Nodulins and Biogenesis of the Endosymbiotic Compartment, Biotechnology Program (D. P. S. Verma), 1 June 1989 through 31 May 1990. (Project 767492 - New)

**\$95,706.10** - Department of Agriculture, Science and Education, Washington, D.C., Bacterial Genes Coding for Plant Ribulose Bisphosphate Carboxylase, Department of Microbiology (F. R. Tabita), 1 April 1989 through 30 November 1989. (Project 767446 - New)

**\$94,000.00** - Environmental Protection Agency, Washington, D.C., Development of Improved Field Equipment and Interpretation Procedures for Ground Penetrating Radar to Analyze the Geohydrologic Setting of Hazardous Waste Sites, Department of Geology and Mineralogy (J. J.

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

Daniels) and ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 29 September 1988 through 28 September 1990. (Project 767043 - Continuation)

\$91,200.00 - National Science Foundation, Washington, D.C., Limit and Averaging Theorems in Ergodic Theory, Department of Mathematics (L. Sucheston, J. M. Rosenblatt, and V. Bergelson), 1 December 1989 through 30 November 1990. (Project 766791 - Continuation)

\$90,170.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Function of the Enteric Nervous System, Department of Physiology (J. D. Wood), 1 May 1989 through 30 April 1990. (Project 765012 - Continuation)

\$88,899.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Novel Uracils, Pyrimidines, Azoles, and Purines, Department of Chemistry (H. Shechter), 1 June 1989 through 31 May 1990. (Project 762793 - Continuation)

\$86,143.00 - Department of Defense, Maryland Procurement Office, Fort George G. Meade, Maryland, Models, Mechanisms, and Methods for Integrity Policies, Department of Computer and Information Science (R. S. Sandhu), 22 May 1989 through 21 May 1990. (Project 767491 - New)

\$83,230.00 - Department of Agriculture, Science and Education, Washington, D.C., Development of Improved Yield-Loss Models for Potato Early Dying, Department of Plant Pathology - OARDC (R. C. Rowe, R. M. Riedel, and L. V. Madden), 1 June 1989 through 31 May 1991. (Project 767473 - Continuation)

\$83,159.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Acute Regulation of Casein Secretion and Degradation, Department of Veterinary Pathobiology (C. L. Brooks), 1 May 1989 through 30 April 1990. (Project 765962 - Continuation)

\$83,012.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, A "Dynamic" Tension-Time Index Hypothesis, Department of Internal Medicine (T. L. Clanton), 1 May 1989 through 30 April 1990. (Project 766821 - Continuation)

\$80,000.00 - Department of Energy, Argonne, Illinois, Molecular Orbital Studies of the Bonding in Heavy Element Organometallics, Department of Chemistry (B. Bursten), 1 July 1989 through 30 June 1990. (Project 765484 - Continuation)

\$78,101.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Health Careers Opportunity Program, School of Allied Medical Professions (S. L. Wilson), 1 September 1989 through 31 August 1990. (Project 766127 - Continuation)

\$71,596.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Regulation of Human Decidual Prolactin, Department of Internal Medicine (R. D. Jackson), 1 April 1989 through 31 March 1990. (Project 766234 - Continuation)



July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$65,000.00 - Department of Energy, Argonne, Illinois, Strongly Interacting Fermion Systems, Department of Physics (J. W. Wilkins), 15 May 1989 through 14 November 1989. (Project 766783 - Continuation)

\$65,000.00 - National Science Foundation, Washington, D.C., DNA Synthesis in Rice Endosperm, Department of Botany (V. Raghavan), 1 September 1989 through 31 August 1990. (Project 766364 - Continuation)

\$63,198.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 30 April 1989 through 30 August 1989. (Project 767472 - New)

\$60,499.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Intestinal Toxicity of 5-Fluorouracil and Leucovorin, College of Pharmacy (J. L. S. Au), 1 May 1989 through 30 April 1990. (Project 766016 - Continuation)

\$59,996.00 - National Science Foundation, Washington, D.C., Temperature Prediction in Ultra-Precision Machining, Department of Industrial and Systems Engineering (D. A. Lucca), 1 August 1989 through 31 July 1991. (Project 767452 - New)

\$56,099.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Mathematical Analysis of the Propagation of Extremely Low Frequency Electromagnetic Energy in Conducting Media, ElectroScience Laboratory, Department of Electrical Engineering (N. N. Wang), 1 April 1989 through 31 March 1990. (Project 767489 - New)

\$55,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, A Novel Approach in Formulation of Special Transition Elements, Department of Aeronautical and Astronautical Engineering (N. Sarigul), 13 April 1989 through 9 May 1990. (Project 765939 - Continuation)

\$55,000.00 - National Science Foundation, Washington, D.C., Structural Requirements for Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 December 1989 through 30 November 1990. (Project 766800 - Continuation)

\$54,130.00 - National Science Foundation, Washington, D.C., Diversity and Distribution of Fossil Floras from Southern Victoria Land, Antarctica, Byrd Polar Research Center (E. L. Taylor and T. N. Taylor) and Department of Botany (T. N. Taylor), 1 April 1988 through 30 September 1990. (Project 766664 - Continuation)

\$52,801.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Modeling of Free Surface Viscoelastic Jets and Instability Mechanisms, Department of Mathematics (G. Forest) and Department of Engineering Mechanics (S. E. Bechtel), 1 April 1989 through 31 March 1990. (Project 766707 - Continuation)

\$50,000.00 - National Science Foundation, Washington, D.C., Large-Scale Distributed Modeling and Parameter Estimation of Power Transformer, Department of Electrical Engineering (A. Keyhani and S. A. Sebo), 1 June 1989 through 30 November 1990. (Project 767454 - New)

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$49,791.00 - Department of Agriculture, Science and Education, Washington, D.C., Population Dynamics of Velvetleaf in Conventional and No-Tillage Corn, Department of Agronomy - OARDC (J. Cardina) and Department of Agronomy (E. E. Regnier), 1 May 1989 through 30 April 1991. (Project 767474 - New)

\$42,174.00 - National Science Foundation, Washington, D.C., Organized Interests Before the Senate: The Politics of Federal Judicial Nominations, Department of Political Science (G. A. Caldeira), 1 May 1989 through 30 April 1990. (Project 767471 - New)

\$40,463.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen, and M. J. Tarr), 16 December 1988 through 15 December 1989. (Project 765188 - Continuation)

\$40,000.00 - National Science Foundation, Washington, D.C., Probes of the Broad Line Region, Department of Astronomy (J. A. Baldwin), 1 September 1989 through 31 August 1990. (Project 767001 - Continuation)

\$34,000.00 - National Science Foundation, Washington, D.C., Non-Commutative Harmonic Analysis, Department of Mathematics (H. Moscovici and R. J. Stanton), 15 June 1988 through 30 November 1990. (Project 766790 - Continuation)

\$33,700.00 - National Science Foundation, Washington, D.C., Geometry and Topology of Complex Variables and Manifolds in Low Dimensions, Department of Mathematics (W. D. Neumann), 1 June 1989 through 31 May 1990. (Project 767479 - New)

\$31,750.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, The Toxicology of Hydantoins in Relation to Oral Biology, Department of Pharmacology (D. Couri and D. A. vonDeutsch), 1 May 1989 through 30 April 1990. (Project 764537 - Continuation)

\$31,720.00 - National Science Foundation, Washington, D.C., The Geography of High Technology Industry in Japan, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (M. F. Kenney), 1 May 1989 through 30 April 1990. (Project 767493 - New)

\$30,500.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Mechanisms of Lymphocyte-Mediated Bone Resorption, Department of Veterinary Pathobiology (C. C. Capen and L. K. McCauley), 7 June 1989 through 6 June 1990. (Project 766748 - Continuation)

\$29,958.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Theory of System Reliability Demonstration, Burn-in Design, and Record Statistics, Department of Statistics (S. Blumenthal and H. N. Nagaraja), 1 July 1989 through 30 June 1990. (Project 767478 - New)

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

**\$29,400.00** - National Science Foundation, Washington, D.C., Study of Association Schemes and Their Character Tables, Department of Mathematics (E. Bannai), 1 June 1989 through 31 May 1990. (Project 767482 - New)

**\$29,018.00** - National Science Foundation, Washington, D.C., Theoretical and Empirical Studies of Communities in Stochastic Environments, Department of Zoology (P. L. Chesson), 1 June 1989 through 31 May 1990. (Project 766066 - Continuation)

**\$20,200.00** - National Science Foundation, Washington, D.C., Formal Systems and Combinatorics, Department of Mathematics (T. J. Carlson), 1 November 1989 through 31 October 1990. (Project 766044 - Continuation)

**\$20,000.00** - Department of Agriculture, Washington, D.C., Small Area Estimation of Agricultural Products, Department of Statistics (P. K. Goel and E. Stasny), 1 June 1989 through 31 May 1991. (Project 767475 - New)

**\$20,000.00** - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 1 May 1989 through 30 April 1990. (Project 767476 - New)

**\$19,900.00** - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 16 September 1989 through 31 December 1989. (Project 766608 - Continuation)

**\$15,048.00** - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 1 June 1989 through 31 December 1989. (Project 765240 - Continuation)

**\$12,000.00** - National Science Foundation, Washington, D.C., Composition Laws for Sums of Squares, Department of Mathematics (T. L. Smith and J. C. Ferrar), 1 June 1989 through 31 May 1990. (Project 767481 - New)

**\$7,018.00** - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (N. D. Schmidt and R. F. Edwards), 1 October 1988 through 30 September 1989. (Project 766472 - Continuation)

**\$5,250.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Binding Properties of Rhodium (II) Carboxylate Complexes, Department of Chemistry (B. E. Bursten and K. I. Goldberg), 12 May 1989 through 11 August 1989. (Project 766735 - Continuation)

**\$4,000.00** - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Frontiers in Smooth Muscle Research: Emil Bozler Symposium, Department of Physiology (J. A. Rall), 1 May 1989 through 30 April 1990. (Project 767468 - New)

July 7, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$3,665.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integrated Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1989 through 31 December 1990. (Project 766995 - Continuation)

\$1,489.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1989 through 31 December 1989. (Project 760578 - Continuation)

\$900.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 April 1989 through 30 June 1989. (Project 767460 - Continuation)

\$900.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 April 1989 through 30 June 1989. (Project 767461 - Continuation)

**TOTAL - FEDERAL AWARDS** **\$6,971,646.10**

**State of Ohio Research Contracts/Grants**

\$250,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Earlier Breast Cancer Detection by Physiologic Breast Profiling, Department of Surgery (W. B. Farrar), 1 May 1989 through 30 April 1991. (Project 767436 - New)

\$195,693.00 - State of Ohio, Department of Development, Columbus, Ohio, Communication System for Speech and Hearing Impaired Persons, Biomedical Engineering Center (M. B. Waldron) and Department of Otolaryngology (W. Melnick), 1 June 1989 through 30 November 1990. (Project 767430 - New)

\$72,303.00 - State of Ohio, Department of Health, Columbus, Ohio, Outreach Education, Department of Pediatrics (L. Cordero), 1 October 1988 through 30 September 1989. (Project 764100 - Continuation)

\$48,274.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio's Martin W. Essex School for the Gifted -- 1989, College of Education - Administration (T. M. Stephens) and Department of Educational Services and Research (R. H. Swassing), 1 April 1989 through 31 March 1990. (Project 767443 - Continuation)

\$42,000.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Health Insurance and Retirement Options for Persons with Developmental Disabilities in Ohio, Nisonger Center (S. R. Schroeder and T. Fish), 1 May 1989 through 30 April 1990. (Project 767486 - New)

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **State of Ohio Research Contracts/Grants (contd)**

\$39,749.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Ohio Developmental Disabilities Program Education Survey, College of Education - Administration and Department of Educational Services and Research (K. D. Arnold), 1 April 1989 through 31 March 1990. (Project 767444 - New)

\$35,000.00 - State of Ohio, Air Quality Development Authority, Columbus, Ohio, The Development of Observationally-Based Communication Strategies for Communicating Risk and Risk Assessment, Department of Communication (B. Dervin), 1 June 1989 through 30 June 1990. (Project 767469 - New)

\$30,499.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Homeless Children and Their Mothers, Department of Family and Community Nursing (J. A. Wagner), 1 March 1989 through 28 February 1990. (Project 767429 - New)

\$15,000.00 - State of Ohio, Department of Agriculture, Columbus, Ohio, Development and Testing of an Improved Biological Insecticide Against Gypsy Moth in Ohio, Department of Biochemistry (D. H. Dean), 1 May 1989 through 30 April 1990. (Project 767484 - New)

\$11,220.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Household Formation, Homeownership, and Housing Quantity Decisions, Academic Faculty of Finance (R. L. Racster), 1 June 1989 through 15 May 1990. (Project 767494 - New)

\$9,996.00 - State of Ohio, Department of Mental Retardation and Developmental Disabilities, Columbus, Ohio, Marketing the Abilities of Persons with Developmental Disabilities to Potential Employers, Center on Education and Training for Employment (R. D. Ryan), 1 March 1989 through 28 February 1990. (Project 766602 - Continuation)

\$7,105.00 - State of Ohio, Department of Development, Columbus, Ohio, Extraction, Separation, and Analysis of High Sulfur Ohio Coal, Department of Chemistry (S. V. Olesik), 1 April 1989 through 31 December 1989. (Project 765906 - Continuation)

**TOTAL - STATE OF OHIO AWARDS** **\$ 756,839.00**

#### **Industrial Research Contracts/Grants**

\$164,671.00 - Berlex Laboratories, Inc., Cedar Knolls, New Jersey, Iloprost in Patients with Severe Atherosclerotic Peripheral Arterial Disease, Department of Surgery (J. G. Wright), 1 June 1989 through 31 May 1991. (Project 767448 - New)

\$105,812.00 - Sandoz, Inc., East Hanover, New Jersey, Evaluation of Efficacy and Safety of Sandostatin in the Treatment of Patients with Acquired Immunodeficiency-Related Diarrhea, Department of Internal Medicine (F. B. Thomas), 1 May 1989 through 31 July 1989. (Project 767487 - New)

\$105,403.30 - Winthrop Pharmaceuticals, New York, New York, Omnipaque Cooperative Study: Randomized, Double-Blind Comparison of Omnipaque<sup>R</sup> 350 and Renografin<sup>R</sup> 76 in Adult Patients with Normal or Abnormal Renal Function and With or Without Diabetes Mellitus

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Industrial Research Contracts/Grants (contd)**

Undergoing Angiocardiography, Department of Internal Medicine (D. B. Van Fossen), 15 February 1989 through 15 February 1991. (Project 767428 - New)

\$90,000.00 - Dianon Systems, Inc., Stratford, Connecticut, Studies on a Human Tumor Marker Protein, Department of Physiological Chemistry (D. E. Schumm and T. E. Webb), 1 June 1989 through 30 June 1990. (Project 767496 - New)

\$66,000.00 - McGraw-Hill Clinical Research International, New York, New York, Double-Blind, Placebo-Controlled Study of Fluconazole in the Prevention of Fungal Infections in Neutropenic Patients Undergoing Bone Marrow Transplantation, Department of Internal Medicine (B. C. Fox), 24 April 1989 through 23 April 1990. (Project 767450 - New)

\$65,650.00 - Mission Research Corporation, Santa Barbara, California, Compact Range System Development, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 17 March 1989 through 1 September 1989. (Project 767463 - New)

\$53,000.00 - Textron Defense Systems, Wilmington, Massachusetts, Compact Range Studies, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 10 March 1989 through 28 April 1989. (Project 767368 - New)

\$52,000.00 - International Business Machines Corporation, Yorktown Heights, New York, Development of Phenomenological Relativistic Approach to Nuclear Physics, Department of Physics (B. C. Clark and R. J. Perry), 1 October 1989 through 30 September 1990. (Project 765137 - Continuation)

\$49,989.00 - Lederle Laboratories, Pearl River, New York, Lederle Protocol 60-16, Department of Pediatrics (L. K. Grossman), 1 May 1989 through 30 April 1990. (Project 767447 - New)

\$49,880.00 - Textron Defense Systems, Wilmington, Massachusetts, Hybrid Body RCS Code Development, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 21 March 1989 through 31 March 1990. (Project 767375 - New)

\$37,430.62 - Various Milling Companies in Ohio, Soft Wheat Milling Research and Evaluation, Department of Agronomy - OARDC (A. L. Barta), 1 June 1989 through 30 June 1990. (Project 767462 - New)

\$32,915.55 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink) and College of Pharmacy (J. J. MacKichan), 1 May 1989 through 28 February 1990. (Project 766635 - Continuation)

\$24,975.00 - Sandia Corporation, Albuquerque, New Mexico, The Influence of Surface Modification on Hydrogen Interaction with Metallic Surfaces, Department of Materials Science and Engineering (B. E. Wilde), 24 April 1989 through 30 September 1989. (Project 767464 - New)

July 7, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

\$20,000.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, ElectroScience Laboratory, Department Electrical Engineering (R. J. Marhefka), 24 April 1989 through 30 June 1989. (Project 766088 - Continuation)

\$14,500.00 - E. I. Du Pont de Nemours and Company, Inc., Newark, Delaware, Evaluation of Soybean F<sub>2</sub> Populations, Department of Agronomy - OARDC (B. A. McBlain), 1 December 1988 through 31 December 1990. (Project 767433 - New)

\$10,000.00 and Materials and Supplies - Santa Fe Pacific Mining, Inc., Albuquerque, New Mexico, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 May 1989 through 30 April 1990. (Project 766219 - Continuation) (Approximate Dollar Value - \$15,000)

\$4,773.00 - Vistakon, Inc., Jacksonville, Florida, Corneal Endothelial Status During Three Months of Low Plus Hydrogel (Acuvue/Durasoft 3) Extended Wear, College of Optometry (J. P. Schoessler), 1 April 1989 through 31 October 1989. (Project 767451 - New)

\$3,990.00 - The Procter and Gamble Company, Cincinnati, Ohio, In Vitro Study of 0.12% Chlorhexidine and 0.12% Chlorhexidine/0.2% Sodium Fluoride Rinse on Stain and Plaque Associated Demineralization with Orthodontic Bracket Placement on Bovine Enamel, Oral Biology (K. Schroeder), 1 April 1989 through 31 March 1990. (Project 767488 - New)

Materials and Supplies - EG & G Idaho, Inc., Idaho Falls, Idaho, Reactor Fuel Assistance Program, Engineering Experiment Station (D. W. Miller), 5 April 1989 through 30 October 1993. (Project 767456 - New) (Approximate Dollar Value - \$500,000)

TOTAL - INDUSTRIAL AWARDS

\$ 950,989.47

#### Other Non-Federal Research Contracts/Grants

\$83,153.00 - Council for Tobacco Research - U.S.A., Inc., New York, New York, Neutrophil Stimulation: Biochemical and Cell Biological Studies, Department of Anatomy (J. M. Robinson), 1 July 1989 through 30 June 1990. (Project 766941 - Continuation)

\$80,000.00 - Rockefeller Foundation, New York, New York, International Program in Pharmacoepidemiology and Therapeutics, Department of Internal Medicine (C. M. Kunin), 1 March 1989 through 28 February 1990. (Project 767457 - New)

\$67,984.00 - Duke University, Durham, North Carolina, Characterization and Therapy of New Fat-Oxidation Defects, Department of Physiological Chemistry (H. W. Sprecher), 1 April 1989 through 31 March 1990. (Project 767453 - New)

\$58,966.00 - University of California, Livermore, California, Thermodynamic Modeling of Sensitization and SCC Performance of Candidate Materials for Containment of High Level Nuclear Waste, Department of Materials Science and Engineering (B. E. Wilde), 1 December 1988 through 30 September 1989. (Project 766496 - Continuation)

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

**\$48,300.00** - Council for Tobacco Research - U.S.A., Inc., New York, New York, Biological Synergism Between Glucarate and Retinoids, Department of Physiological Chemistry (T. E. Webb), 1 July 1989 through 30 June 1990. (Project 766741 Continuation)

**\$28,380.00** - American Heart Association, Dallas, Texas, Cardiovascular Effects of B<sub>1</sub> Kinins, Department of Physiology (P. E. Ward), 1 July 1989 through 30 June 1990. (Project 767459 - New)

**\$25,000.00** - Alfred P. Sloan Foundation, New York, New York, Alfred P. Sloan Research Fellow, Department of Chemistry (A. W. Czarnik), 16 September 1989 through 15 September 1991. (Project 767483 - New)

**\$21,000.00** - National Kidney Foundation, Inc., New York, New York, National Kidney Foundation Research Fellowship, Department of Internal Medicine (L. A. Hebert and D. M. Ricker), 1 July 1989 through 30 June 1990. (Project 767466 - New)

**\$14,495.00** - University of Puerto Rico, Rio Piedras, Puerto Rico, Workshops for Teachers on the Humane Care and Use of Vertebrates in Education and Student Research, Laboratory Animal Center, Department of Surgery, and Biomedical Engineering Center (J. F. Cornhill), 15 May 1989 through 15 August 1989. (Project 767490 - New)

**\$14,100.00** - Arizona Conservation Projects, Inc., Tucson, Arizona, Survey of the Invertebrate Cave Fauna of Kartchner Caverns, Arizona, Department of Entomology (D. E. Johnston and W. C. Welbourn), 1 May 1989 through 30 April 1990. (Project 767465 - New)

**\$10,000.00** - International Center for the Preservation of Wild Animals, Columbus, Ohio, Development of a Baseline Digital Data Base of the Biopark, Phase I (Digital Terrain Model), Center for Mapping (J. D. Bossler), 1 May 1989 through 15 July 1989. (Project 767485 - New)

**\$10,000.00** - United States Golf Association, Far Hills, New Jersey, Monoclonal Antibodies for Rapid Diagnosis of Summer Patch and Necrotic Ring Spot Diseases of Turfgrass, Department of Plant Pathology - OARDC and Department of Plant Pathology (W. W. Shane) and Cooperative Extension State Operations and Department of Plant Pathology (S. T. Nameth), 28 April 1989 through 27 April 1990. (Project 765882 - Continuation)

**\$9,824.00** - Battelle Memorial Institute, Columbus, Ohio, Analysis of Current and Selected Soviet Literature on Carbon Monoxide Lasers, Department of Mechanical Engineering (J. W. Rich), 15 March 1989 through 31 August 1989. (Project 767445 - New)

**\$8,234.00** - Washington Higher Education Coordinating Board, Olympia, Washington, Alternative Design(s) for Washington's Delivery of a Comprehensive Articulated Program of Vocational/Technical Education, Center on Education and Training for Employment (R. D. Ryan), 24 April 1989 through 10 September 1989. (Project 767455 - New)

**\$7,710.00** - March of Dimes Birth Defects Foundation, Central Ohio Chapter, Columbus, Ohio, High Risk Perinatal Project: Teen Pregnancy Program, Department of Pediatrics (L. Cordero), 1 May 1989 through 30 April 1990. (Project 767406 - New)



July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$6,537.00 - University of Kentucky, Lexington, Kentucky, Development and Presentation of a Workshop on the Humane Care and Use of Animals in the Classroom, Laboratory Animal Center (J. F. Cornhill), 1 May 1989 through 31 July 1989. (Project 767458 - New)

\$6,072.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Pathology (R. O'Toole), 1 January 1989 through 31 December 1989. (Project 761460 - Continuation)

\$3,574.00 - American Dental Hygienists' Association, Chicago, Illinois, Dental Hygienists' Utilization of Periodontal Assessment Skills Compared to Level of Collaboration with Their Dentist-Employer, Dental Hygiene (J. M. Uldricks), 1 October 1988 through 30 September 1989. (Project 767442 - New)

\$2,200.00 - Greater Columbus Arts Council, Columbus, Ohio, Grandparents Living Theatre, Department of Theatre (J. Reilly), 1 October 1989 through 1 June 1990. (Project 767470 - New)

\$2,169.08 - Council for Tobacco Research - U.S.A., Inc., New York, New York, Neutrophil Stimulation: Biochemical and Cell Biological Studies, Department of Anatomy (J. M. Robinson), 1 July 1988 through 30 June 1989. (Project 766941 - Continuation)

\$1,898.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1989. (Project 765208 - Continuation)

\$1,000.00 - American Chemical Society, Washington, D.C., Tumor Marker Protein, Department of Physiological Chemistry (D. E. Schumm) and College of Medicine - Administration (C. L. Yash), 12 June 1989 through 18 August 1989. (Project 767480 - New)

\$541.50 - Council on International Educational Exchange, New York, New York, Ministry of Education Intensive English in the U.S.A. for Japanese Teachers of English, English as a Second Language Program (R. N. Kantor), 1 April 1989 through 31 December 1989. (Project 767405 - Continuation)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$ 511,137.58**

### **ENGINEERING EXPERIMENT STATION**

#### **State Sponsored Research and Development**

\$250,000.00 - from the Edison Program, Columbus, Ohio, and Adtech Systems, Columbus, Ohio, for "Failure mechanisms in Composite Materials and Structures: Global Local Finite Element Method," under the direction of the department of Civil Engineering for the period March 1, 1989 through February 28, 1991. (312498)

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **ENGINEERING EXPERIMENT STATION (contd)**

#### **State Sponsored Research and Development (contd)**

\$74,759.00 - from Department of Development, Columbus, Ohio and LTV Steel, Columbus, Ohio, for "Development of Improved Rolls for Steel Continuous Casting," under the direction of the department of Welding Engineering for the period May 1, 1989 through April 30, 1990. (529803)

\$6,747.00 - from University of Cincinnati/Board of Regents, Columbus, Ohio, for "Ohio Aerospace Institute Ad Hoc Committee Support," under the direction of the department of Mechanical Engineering for the period November 1, 1988 through October 31, 1989. (529789, Ext. 1)

#### **STATE SPONSORED RESEARCH AND DEVELOPMENT**

**\$331,506.00**

#### **Industrial and Other Sponsored Research and Development**

\$234,000.00 - from various industry for memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$200,000.00 - from Gas Research Institute, Chicago, IL, for "The Determination of the Performance Life of Heat Fusion Joints in Polyethylene Gas Pipe," under the direction of the department of Engineering Mechanics for the period October 1, 1988 through September 30, 1990. (529804)

\$88,789.00 - from Electric Power Research Institute, Palo Alto, CA, for "Primary Water Stress Cracking Corrosion Crack Growth of Alloy 600 Tubing," under the direction of the department of Materials Science and Engineering for the period April 24, 1987 through February 28, 1990. (312412, Ext. 4)

\$80,844.00 - from Textron Lycoming, Stratford, CT, for "Feasibility Study: Laser Brazing of Recuperator Plates," under the direction of the department of Welding Engineering for the period May 1, 1989 through November 30, 1989. (312509)

\$45,282.00 - from McDonnell Douglas, St. Louis, MO, for "Analysis of Electromagnetic Scattering from Three Dimensional Coated Bodies," under the direction of the department of Electrical Engineering for the period May 1, 1989 through April 30, 1990. (312507)

\$44,955.00 - from McDonnell Douglas, St. Louis, MO, for "Uniform Theory of Diffraction Analysis of Electromagnetic Scattering from Corners and Vertices," under the direction of the department of Electrical Engineering for the period May 1, 1989 through December 31, 1989. (312506)

\$41,000.00 - from Lockheed Aeronautical System Co., Burbank, CA, for "Wind Tunnel Testing of Two Element Airfoil Models," under the direction of the department of Aeronautical and Astronautical Engineering for the period May 1, 1989 through December 31, 1989. (312505)

\$34,551.00 - from 40 sponsors of 51 development projects under the direction of the 3 departments/research areas of the College.

\$30,000.00 - from Boeing Company, Seattle, WA, for "Physically-based Models for Heterostructure Devices," under the direction of the department of Electrical Engineering for the period March 27, 1989 through December 31, 1989. (312503)

July 7, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### ENGINEERING EXPERIMENT STATION (contd)

#### Industrial and Other Sponsored Research and Development (contd)

\$30,000.00 - from the City of Columbus, Department of Public Utilities, Columbus, OH, for "An Aviation Statistical Data Bank," under the direction of the department of Aviation for the period March 30, 1989 through December 31, 1989. (312504)

\$20,000.00 - from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the department of Electrical Engineering. (312884)

\$15,701.00 - from Westinghouse, Sunnyvale, CA, for "Evaluation of Gear Mesh Transmission Error," under the direction of the department of Mechanical Engineering for the period May 1, 1989 through November 30, 1989. (529805)

\$10,000.00 - from Boeing Advanced Systems, Seattle, WA, for "Electromagnetic Testing of the Harris Dual Reflector Compact Range," under the direction of the department of Electrical Engineering for the period December 8, 1988 through December 31, 1989. (312495, Ext. 1)

\$7,622.00 - from Edison Welding Institute, Columbus, OH, for "Development Proposal: Inertia Welding of Alumina Reinforced 6061 Aluminum," under the direction of the department of Welding Engineering for the period April 17, 1989 through June 30, 1989. (312500)

\$7,000.00 - from various industry for membership in the Gear Research Laboratory, under the direction of the department of Mechanical Engineering. (529735)

\$ -246.00 - from Lockheed Missiles & Space Company, Sunnyvale, CA, for "Technical Assistance/Large Compact Range Project," under the direction of the department of Electrical Engineering for the period January 1, 1989 through January 20, 1990. (312496)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$1,221,004.00

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

#### Establishment of Named Funds

##### The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering

The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering was established July 7, 1989, by the Board of Trustees of The Ohio State University with a gift from the estate of Albert Dickey (B.S.E.E. '23) in memory of his parents, Sarah Eliza and Martin Luther Dickey.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Ten percent (10%) of the annual income shall be reinvested in the fund's principal to ensure future growth. The remaining ninety percent (90%) of the annual income shall be used for purposes which will aid the research, teaching and service programs/facilities within the

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Sarah Eliza and Martin Luther Dickey Memorial Fund in Electrical Engineering (contd)**

Department of Electrical Engineering in the College of Engineering. The chairperson of the Department of Electrical Engineering will have sole authority to authorize expenditures from the fund, as approved by the Dean of the College of Engineering.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

##### **The John M. Shepherd Athletic Scholarship Fund**

The John M. Shepherd Athletic Scholarship Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John M. Shepherd (B.Cer.E. '58, M.B.A. '59) of Cincinnati, Ohio.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to supplement the grant-in-aid scholarship costs of qualified student athletes pursuing undergraduate degrees at The Ohio State University who are members of the men's varsity basketball team. Recipients shall be selected by the Director of Athletics in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Director of Athletics in order to carry out the desire of the donor.

##### **The Dr. A. J. Christoforidis Lectureship in Radiology**

The Dr. A. J. Christoforidis Lectureship in Radiology was established July 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. A. John and Ann A. Christoforidis.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a lectureship on advances in radiology and related educational activities within the Department of Radiology at The Ohio State University College of

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Dr. A. J. Christoforidis Lectureship in Radiology (contd)**

Medicine. Expenditures from the fund shall be authorized by the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donors.

**The Margaret Carter Speer and  
William Raymond Speer Endowment Fund**

The Margaret Carter Speer and William Raymond Speer Endowment Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the estates of Margaret Carter Speer (B.S.Ed. '23) and William Raymond Speer (B.S.Bus.Adm. '23, J.D. '27) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to assist in satisfying the housing needs of the Alumnae Scholarship House Residents. Expenditures from the fund shall be authorized by the Alumnae Scholarship House Advisory Board.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Alumnae Scholarship House Advisory Board, in order to carry out the desire of the donors.

**The Wayne Woodrow 'Woody' Hayes  
Naval R.O.T.C. Leadership Award Fund**

The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from Mrs. Anne Hayes of Columbus, Ohio, in memory of her late husband, Wayne Woodrow 'Woody' Hayes, and his wartime naval service as a commissioned officer and his commitment to and appreciation of the Naval Reserve Officer Training Corps Unit at The Ohio State University.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Wayne Woodrow 'Woody' Hayes Naval R.O.T.C. Leadership Award Fund (contd)**

The annual income shall be used under the direction of the commanding officer of the Naval Reserve Officer Training Corps to provide awards for students in the unit demonstrating outstanding leadership skills and excellent academic achievement as reflected by their selection as student battalion commanders.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative officer in order to carry out the desire of the donor.

#### **Change in Description of Named Fund**

##### **The Sigmund & Rita Munster and Family Athletic Endowment Fund**

The Sigmund & Rita Munster and Family Athletic Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Sigmund Munster family of Columbus, Ohio. The description was revised July 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide funds for student athlete scholarships as determined by the Director of Athletics. Selection of the recipients is to be made by the Director of Athletics in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University then responsible for the intercollegiate athletic program, in order to carry out the desire of the donors.

### **THE OHIO STATE UNIVERSITY FOUNDATION**

#### **Approval of Description and Establishment of Fund**

##### **The H. Justin Davidson Fellowship Fund**

The H. Justin Davidson Fellowship Fund was established July 7, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Business.

July 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY FOUNDATION (contd)**

#### **Approval of Description and Establishment of Fund (contd)**

##### **The H. Justin Davidson Fellowship Fund (contd)**

Income provided by the Foundation shall be used to provide an award(s) to the highest performing, first-year, full-time student(s) in the College of Business' Master of Business Administration program. Special consideration will be extended to graduate students who are not receiving any significant financial assistance from the program, the College or the University. Selection of the recipients will be made by the Dean of the College of Business, in consultation with the University Committee on Student Financial Aid.

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### **Employment of Architects/Engineers and Request for Construction Bids**

#### Background

##### **DINING COMMONS REMODELING - PHASE I, NORTH COMMONS**

On November 16, 1987, the Board of Trustees approved the employment of an architectural firm and food service consultant to prepare a master plan, budget, and detailed program of requirements for construction for this project. The master plan and detailed program of requirements have been completed, and the University is ready to move forward with the project, which will be accomplished in five phases to update and remodel the existing kitchen, serving area, and dining areas of North, Raney, Baker, Kennedy, and Morrill Commons.

Phase I will remodel two levels of North Commons and includes the existing kitchen, serving area, and dining areas. Due to the advanced age of the equipment in the food preparation areas, much of it will be replaced with new and more efficient equipment. The new kitchen design will use existing plumbing and electrical facilities where feasible, with new services added. The serving area will be completely updated to accommodate the changing service needs of the facility and the dining area will change only as needed to address the changes created in the serving functions and functional requirements of the dining facility.

Funds for the project are available from Residence and Dining Halls. Construction costs for Phase I are estimated at \$2,560,000, and the total estimated Phase I project cost is \$3,200,000.

(See Appendix III for map, page 119.)

### **EMPLOYMENT OF ARCHITECTS/ENGINEERS AND REQUEST CONSTRUCTION BIDS**

Resolution No. 90-15

##### **DINING COMMONS REMODELING - PHASE I, NORTH COMMONS**

**Synopsis:** The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for Phase I of the Dining Commons Remodeling.

July 7, 1989 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECTS/ENGINEERS AND  
REQUEST CONSTRUCTION BIDS (contd)**

WHEREAS this five phase project will remodel the dining area, kitchen, serving area, and entrance lobbies of North, Raney, Baker, Kennedy, and Morrill Commons; and

WHEREAS Phase I of this project will accomplish desired changes in the North Commons; and

WHEREAS the total estimated cost of this phase of the project is \$3,200,000, with the estimated construction cost being \$2,560,000, with funding provided from Residence and Dining Halls:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project, and that the fees for these services be negotiated between the firms selected and University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established State of Ohio and University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Report of Award of Contracts and  
Establishment of Contingency Funds**

Background

(See Appendix IV for a complete tabulation of bids on all projects and locator maps, page 121. Amounts shown with an \* include accepted alternates.)

Masonry Repairs - Bricker Hall

This project will replace the damaged and deteriorated exterior masonry on the Bricker Hall parapet. The total project cost is \$66,095.00; funding is provided from State capital appropriations (House Bill 810). The estimated completion date is November 1989. The contract awarded is as follows:

General Contract:	General Maintenance, Columbus, Ohio
Amount:	\$59,176.00 *
Estimate:	\$76,000.00 *
Total All Contracts:	\$59,176.00 *
Contingency Allowance:	\$ 5,919.00 (10% of construction cost)
Total Project Cost:	\$66,095.00



**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Masonry Repairs - Pomerene Hall

This project will renovate the damaged and deteriorated exterior masonry on Pomerene Hall. The total project cost is \$128,250; funding is provided from State capital appropriations (House Bill 810). The estimated completion date is November 1989. The contract awarded is as follows:

General Contract:	H. K. Phillips, Columbus, Ohio
Amount:	\$115,664.00
Estimate:	\$160,000.00
Total All Contracts:	\$115,664.00
Contingency Allowance:	\$ 11,586.00 (10% of construction cost)
Total Project Cost:	\$128,250.00

Dodd Hall Interface

This project will improve the first and second floors of Dodd Hall in order to integrate the activities of Dodd Hall and the Davis Medical Center. The total project cost is \$1,230,500; funding is provided from University funds. The estimated completion date is February 1991. The contract awarded is as follows:

General Contract:	Functional Development, Dublin, Ohio
Amount:	\$ 987,689.00
Estimate:	\$1,142,890.00
Total All Contracts:	\$ 876,769.00
Contingency Allowance:	\$ 99,260.79 (10% of construction cost)
Total Project Cost:	\$1,230,500.00

Dodd Hall HVAC System Modifications

This project will modify and upgrade the HVAC system to provide a new four pipe fan coil system for patient comfort and health through improved air quality, dust control, and ventilation. The total project cost is \$1,393,030; funding is provided from University funds. The estimated completion date is February 1991. Contracts awarded are as follows:

July 7, 1989 meeting, Board of Trustees

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Dodd Hall HVAC System Modifications (contd)

Fire Protection Contract:	Franklin Fire Sprinkler, Columbus, Ohio
Amount:	\$ 135,912.00
Estimate:	\$ 182,694.00
Plumbing Contract:	C. W. Construction, Groveport, Ohio
Amount:	\$ 109,975.00
Estimate:	\$ 149,073.00
HVAC Contract:	J. A. Guy, Dublin, Ohio
Amount:	\$ 603,700.00
Estimate:	\$ 550,919.00
Electric Contract:	Royal Electric, Columbus, Ohio
Amount:	\$ 278,600.00
Estimate:	\$ 286,300.00
Total All Contracts:	\$1,128,187.00
Contingency Allowance:	\$ 112,819.67 (10% of construction cost)
Total Project Cost:	\$1,393,030.00

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 90-16

MASONRY REPAIRS - BRICKER HALL  
MASONRY REPAIRS - POMERENE HALL  
DODD HALL INTERFACE  
DODD HALL HVAC SYSTEM MODIFICATIONS

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to the lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**MASONRY REPAIRS - BRICKER HALL  
MASONRY REPAIRS - POMERENE HALL  
DODD HALL INTERFACE  
DODD HALL HVAC SYSTEM MODIFICATIONS (contd)**

WHEREAS a resolution adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Masonry Repairs - Bricker Hall and Masonry Repairs - Pomerene Hall; and

WHEREAS resolutions adopted by the Board of Trustees on November 6, 1987, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Dodd Hall Interface and Dodd Hall HVAC System Modifications:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Masonry Repairs - Bricker Hall, Masonry Repairs - Pomerene Hall, Dodd Hall Interface, and Dodd Hall HVAC System Modifications projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**1989-90 BUDGET PRESENTATION**

Mr. Ihrig:

Today we are presenting Ohio State's first billion dollar current funds budget for your approval. This budget of \$1,080,000,000.00 dollars, while sounding very big in total dollars, in reality it represents a tight budget throughout the University. This new biennium is what I call a "foundation building" biennium for Ohio State. This means a period to continue the progress toward enhancing excellence by consolidating the outstanding gains achieved over the past two biennia, or four years.

Let me try to explain this graphically. After the disastrous period of the early 1980's when State support was flat, with periods of cutbacks and inflation in double digits, the instructional subsidies have grown at a fairly steady rate. For this support, Ohio State is most grateful to the Ohio General Assembly. However, to understand the real impact of State support on Ohio State's Columbus Campus, we need to look at the instructional subsidy in constant dollars, i.e. adjusted for inflation. This chart shows the instructional subsidy adjusted for inflation based not upon the CPI, which does not reflect Ohio State's costs, but the Higher Education Price Index which more closely reflects our true costs. You can see that the high inflation of the early 1980's took its toll, with real recovery beginning in the 1985-87 biennium. Even so, we

**1989-90 BUDGET PRESENTATION (contd)**

Mr. Ihrig: (contd)

didn't reach the purchasing power of 1979-80 until 1986-87. However, the 1985-87 biennium was our signal that this State was willing to fund both excellence and access for higher education.

Once the momentum was created, the 1987-89 biennium arrived with no growth and some decline, but Ohio State considered this to be a temporary lull. The University decided to sustain the momentum through expanded cost containment and reallocations that continued to fund new and expanded expectations and kept tuitions as low as possible. However, as you can see, the 1989-91 biennium continues this flat support in constant dollars when we project a 6 percent rate of increase in operating costs, as did the Board of Regents. What this means is that since Ohio State can no longer continue its past levels of internal reallocations; we must temper, not our expectations, but the rate of support for these expectations to keep within our levels of available funding.

Let us also look at the increases in tuitions over the same period. You can see how Ohio State has been addressing access by holding tuitions below the State levels assumed in the subsidy models. For 1989-90, even with the recommended increases, Ohio State would still have to increase undergraduate instructional fees 19 percent to reach the Regents' fee assumptions, 68 percent to reach the graduate, and 43-69 percent to reach the professional tuition assumptions. These represent significant losses of potential revenue that this University does not have available with the tuition cap on undergraduate instructional fees imposed by the General Assembly. Our plan was to utilize this and the next biennium to close the tuition gap and help continue the rates of progress; however, for the undergraduate instructional fee, that option is no longer available. Other universities in Ohio appear to have made the correct decision when they kept their tuition increases at the State assumed levels.

This level of state support combined with comparable rates of tuition increases would have presented an excellent budget for a university satisfied with the status quo. Ohio State's problem is that the status quo is unacceptable; therefore, our challenge is to find ways over this biennium to continue the enhancement of excellence with reasonable tuitions and limited resources.

Total budgeted resources are \$1,080,290,000, of which \$1,018,800,000 is the Columbus Campus (94.3 percent); while budgeted uses are 1,079,950,000 in total, \$1,018,690,000 on the Columbus Campus.

Amb. Wolf:

May I ask a question? Do you relate these figures to the first two charts that you showed us? For example, you had \$250 million from the State?

Mr. Ihrig:

That was instructional subsidy which is included in this state appropriation number which includes instructional subsidy, as well as the line items they give us.

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**1989-90 BUDGET PRESENTATION (contd)**

Amb. Wolf:

O.K. That takes care of that one. The second one, you had 50,000 students times \$3,000 -- is that where you get the \$150 million?

Mr. Ihrig:

\$158,000 is the tuition paid by the students and remember some of the students are part-time as well as full-time.

Amb. Wolf:

So, it averages \$1,900 a student?

Mr. Ihrig:

It varies because in this budget the undergraduate students would pay --

Amb. Wolf:

So, the previous chart was just for the undergraduates?

Mr. Ihrig:

That's right. That was only for undergraduate tuition. Professional and medicine were not included.

Mr. Berry:

And out-of-state students?

Mr. Ihrig:

Out-of-state students were not included.

Mr. Kessler:

Other resources such as private gifts and grants of \$61 million, and an endowment of \$10 million, what is the private gifts? That is not Tobin's area is it?

Mr. Ihrig:

It is part of that. Those are private gifts that are given for current funds uses that don't go into endowment principle, as well as grants from private businesses to do research. They are combined in private gifts and grants.

Mr. Teaford:

It tends to be the small gifts, right?

Mr. Ihrig:

They are beginning to get larger now.

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**1989-90 BUDGET PRESENTATION (contd)**

Mr. Kessler:

\$61 million is a large number.

Mr. Berry:

\$61 million is just in annual gifts?

Mr. Ihrig:

Annual giving for grants that come from private enterprise to do research by the faculty of the University. There are contract and grants in there as well as by giving by individuals, and corporations and foundations.

Ms. Casto:

Those are restricted right, usually, not just general --

Mr. Ihrig:

Usually, it is all restricted for the most part. There are some that are --

Mr. Teaford:

But not very much of that would be contract grants would it? Because most of the contract grants are up in the top --

Mr. Ihrig:

No. Those up here are from federal government, state government, and county and city government. These are private corporations. And that is a growing area.

Dr. Hollander:

It's over \$10 million now.

Mr. Teaford:

It is the \$10 million of the \$65 billion --

Amb. Wolf:

Can you pick out of those figures how much is going in for research. I would presume --

Mr. Teaford:

He said \$10 million.

Amb. Wolf:

But the \$102 million from the federal government --

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**1989-90 BUDGET PRESENTATION (contd)**

Mr. Ihrig:

Yes. Because the federal government grants and contracts would also include financial aid monies that come in directly through the University, as well as the sponsored research.

Dr. Hollander:

It is \$130 million in sponsored research.

Mr. Ihrig:

We also put money in from inside the University.

Amb. Wolf:

How much is that?

Mr. Ihrig:

That's running now close to \$20 million a year, in that range.

Amb. Wolf:

OK. So it is \$150 million worth of research in this budget -- 15%.

Mr. Ihrig:

For directly identified research.

President Jennings:

The other thing you might point out is that the \$10 million in endowment income is not the endowment income that Jim reports. It is endowment income that is planned to be distributed.

Mr. Teaford:

Some of the money he reports gets reinvested.

President Jennings:

That is right.

Mr. Ihrig:

Now page four breaks this down into three major components of this budget. Those are the general funds, which are the basic funds within the University that support the colleges; the academic support areas such as the libraries, computer centers and the utilities that go with those areas; and the administrative support areas. The earnings operations are the residence halls, athletics, bookstores, anything that charges a fee for its activities. The restricted funds will be those funds in which

**1989-90 BUDGET PRESENTATION (contd)**

Mr. Ihrig: (contd)

external agencies or individuals give us money in contract with us, and they define the use of those funds. There is also the State money in here that are line item budgeted in the State approved budget. You will find private gifts and contracts that are restricted in here.

So the general funds for the University total \$476 million and then we have another \$350 million in the earnings operations and \$255 million in restricted funds. The interesting thing on this budget, when you look at the percentage trends here, the funding is down slightly in earnings and the general funds, while our restricted funds are up. That is basically because of the related State support and the tuition areas tightening in this budget, and the earnings operations pressured to operate efficiently and to keep the costs down. We are out actively pursuing increasing the restricted fund category to fill in those gaps.

President Jennings:

That restricted fund is a reflection of these young faculty being brought in here and getting more and more high level research grants and increasing that \$150 million.

Amb. Wolf:

But, if we compare our budget to our peer institutions, do they all include all their operations -- the hospital operations? We have about \$200 million for the Hospitals, when we compare budgets for budgets, do we purify the comparisons?

Mr. Ihrig:

Yes. The large research institutions will mostly compare on the total dollar basis and those that have hospitals will include them. Now there will be other comparisons that will take it upon the basis of general funds column and try to look at the core academic activities of the University, rather than the total budget. So they compare it both ways.

President Jennings:

That is one of the reasons most of our comparisons are done consistently with the big research universities that also happen to have medical schools. Some of this stuff is very difficult to separate out.

Mr. Teaford:

Well, there is an awful lot of instructional in that \$200 million.

President Jennings:

That is not only just instruction for medicine, but it is also for nursing, pharmacy, engineering, allied medicine, and all sorts. That's why a comparison to say Michigan or the University of Iowa is more relevant than a comparison to Purdue. Purdue doesn't have the medical complex. But, Joel, that is why you see consistently total budget comparisons to places with medical complexes. It is exactly the reason,



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### 1989-90 BUDGET PRESENTATION (contd)

President Jennings: (contd)

because you can't separate that out as to what is going on in the hospital, just as you can't separate out say totally in agriculture its impact on the rest of the campuses.

Mr. Ihrig:

The general fund of the University for the Columbus Campus is up to \$452.4 million. That increase over last year is \$31.4 million. I thought you might like to look at what that increase is being used for. Personnel salaries and benefits is \$19.9 million, making up 63 percent of that increase. And the salary guidelines are even restricted this year in their magnitude. I am personally very concerned about our competitive position among faculty in the Big 10 and elsewhere. Over 63 percent is being used here. Utilities and bringing on new facilities that have been under construction is \$3.6 million or -- this is just the general fund, it does not include the Cancer Hospital. This is all for academic buildings, such as Lazenby, Enarson Hall, and this is getting those fully operational now.

Mr. Teaford:

But that doesn't have anything to do with the cost of building at all?

Mr. Ihrig:

No. This is the operational costs. It would include those as well as bringing on the Wexner Center and all of those facilities that have been through renovation or under construction that support the academic core of the University. So you've got another 11.5 percent of the budget there. Eleven percent is going toward enhancements for student aid to adjust for the new expenses including our own tuition, as well as fee authorizations for graduate students who are using the research labs and in the classroom. Academic Challenge is another 7.2 percent. That is where the State gives us one percent of the instructional subsidy to apply to already excellent programs to help improve them further. I will come back to that one later. Library support is expanded by almost \$1.6 million and making that a recurring expense where we have been using one time funds in the past. We are trying to compensate for the high cost of book prices and journal prices, especially the international articles that the libraries are trying to acquire. We have an exchange rate problem that is working against us now that use to work for us. Finally, we are increasing the internal research support of the University by \$700,000.

Mrs. Bowser:

So, when you talk about controlling costs you are talking about these items?

Mr. Ihrig:

Yes.

Mr. Teaford:

This is the way we are spending the new money.

**1989-90 BUDGET PRESENTATION (contd)**

Mr. Ihrig:

This is the new money. But it is part of the control of costs. You either have to take the base and lower the costs of some things we have been doing so the increases aren't as high, and reallocate those funds to do new ventures, or we have to limit the rate of increase here.

The benefits includes the 40 percent increase in health insurance benefits. Even though the faculty and the staff are paying 15 percent. We are looking at this as a very uncertain market, this is with the real costs of benefits. After being burned two years in a row of coming from behind and having to eat our reserves, we are still budgeting in the total expense to the University. Now, if the costs have dropped and we don't use that total budget, the first call on those funds will be to replace the reserves that we depleted to get through the last two years of underestimating. So now we have to rebuild the reserves so we are ready for the next time.

Mrs. Bowser:

How much were they depleted?

Mr. Ihrig:

They were depleted by around \$12 million.

Mrs. Bowser:

So you are going to get back to \$12 million?

Ms. Casto:

There is a lot more savings expected than that, right?

Mr. Ihrig:

No. The savings on an annual basis in the first year when they are fully realized would be somewhere around \$4 - \$5 million. It doesn't happen in one year.

Amb. Wolf:

I am looking at the library -- how does our library rate nationally as far as the number of volumes?

Mr. Ihrig:

The latest figures show that in comparison with the Big 10, we rank 8th in terms of the extent of expenditures of the current funds budget. And that is one of the reasons that we are having to invest in the libraries, in order to bring that rating up.

President Jennings:

We should also point out that we are 8th in the Big 10, but we are 16th in the nation.

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### 1989-90 BUDGET PRESENTATION (contd)

Amb. Wolf:

We are 16th in the nation?

President Jennings:

Yes. The point that I'm trying to make is the Big 10 comparison -- that is the major comparison in terms of the number of volumes.

Amb. Wolf:

Sixteenth in the nation is pretty good.

President Jennings:

Very good. That is why when you make your comparisons of the Big 10, you are comparing to the major universities in America. So you've got roughly those 10 institutions plus the five that are now in there and so forth. But in the Big 10 we have fallen behind a bit and have not made that commitment.

Mr. Teaford:

Eighth among our peers is not good.

Mr. Scott:

There are two questions. One has to do with the expenditure and one has to do with volumes. I'm not sure that we are eighth in volumes?

Mr. Ihrig:

I don't know where we rank on volumes.

Mr. Scott:

We are probably third or fourth.

President Jennings:

Sixteenth in volume nationally. We can find out where we are among the Big 10.

Dr. Hutchinson:

I think one of the big issues is whether we are getting into the new acquisitions. There are a lot of new journals that relate to our new faculty and we've got to be sure that we are getting those kinds of volumes into our libraries.

President Jennings:

One of the things that you will see this afternoon in terms of the capital budget, you are going to see a long-term, huge \$100 million plus item for libraries, into the '90's as a capital expenditure. And we are of course building a facility right now --

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### 1989-90 BUDGET PRESENTATION (contd)

Mrs. Bowser:

That isn't going to answer to this -- more space. You have to fill the space up. I think Fred's point is well taken and also what Weldon says -- the foreign journals must really be a drain on the budget now because of the exchange.

Mr. Ihrig:

Yes. Because the exchange rates were in our favor in the early '80's, there was a level of expectation set up. All of a sudden the exchange rates shifted and became less favorable, but the expectations are still there. Again, it is that area of expectations and now the costs are far exceeding those. So, that is the reason we are having to move more money and we are trying to develop an index that will cover pits and valleys on this.

Mr. Teaford:

What are our total library budgets, that's not it --

Mr. Ihrig:

No, that is an increase to their acquisition budget, not to their personnel.

Mr. Teaford:

What is the total acquisition budget?

Mr. Ihrig:

I don't have that number with me.

Amb. Wolf:

Is it in the book here someplace?

Mr. Ihrig:

No. Because we are putting together this budget at the last minute, it still is only details, but the details have not gotten in your book.

Mr. Teaford:

Do you have a sense of how much of that is truly acquisition and how much is just keeping up our subscriptions? By percentage?

Mr. Ihrig:

I can't give you a percent on that, Joel. The heavy pressure now is on subscriptions and journals, not on individual books. And that has been putting heavy pressure on the library. It is for all libraries on campus.

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**1989-90 BUDGET PRESENTATION (contd)**

President Jennings:

But the questions you are asking is why in a very tight budget we are still putting a \$1.5 million in the library for --

Mr. Teaford:

But it is easy to see that you've got to do it.

Mrs. Bowser:

Are we going back here to Academic Challenge?

Mr. Ihrig:

Yes, I am showing here an additional \$2.3 million. That is the amount the State designates -- 1% instructional subsidies that was budgeted in. This is the third biennium of Academic Challenge. It is the fourth for Ohio State, because this University started doing Academic Challenge internally as a concept and the State caught on to it and started funding it. The concept was that the State would provide an additional 1% of the instructional subsidy for commitments on a continuing basis. These are not one-time funds, they are continuing. What has happened is the first biennium monies were provided two biennia ago. Due to this leveling off of monies, the State budget has not been fully funded for two biennia as requested by the Regents. Therefore, the continuation costs of Academic Challenge have not been funded and we are having to eat those -- if I may use the raw term-- out of our basic budget dollars. This year of the biennium adds \$4.95 million to this number -- it takes it up to about \$7.3 million -- that we are supporting in those Academic Challenge initiatives covering the two biennias ago, as well as the new one coming in that we are funded for. Next year that goes up to \$5.2 million in the budget.

Mr. Teaford:

You are saying we are obligated to the State to do that even though they aren't going to pay for it?

Mr. Ihrig:

Yes.

President Jennings:

No, I don't think we are obligated to the State. We are basically obligated to ourselves.

Mr. Ihrig:

But also in agreeing to take the money, we are obligated.

**1989-90 BUDGET PRESENTATION (contd)**

President Jennings:

What he is saying is this State appropriation is \$7.9 million short of what was expected when the Academic Challenge was begun.

Mr. Ihrig:

So that is another reason why this budget is very, very tight. On page six of the budget you are presented a summary of the sources of funds. State appropriations are at 31.4 percent in this budget. They have been over 32 percent in the past when we were in the good years and things were improving. The students are paying over 15 percent. This gives you a share of the budget coming from the various sources.

Let's move to the actual impact on student tuition. This chart below shows the fees on an annual basis of which the undergraduate students will be paying \$2,190 for three quarters. This is made up of the \$120 increase that has been capped by the State for the instructional fee, plus the general fee -- which is an integral part of the tuition we charge -- of a \$30.00 increase. Together they represent a 7.4 percent increase. We have increased the general fee at the same relative proportion as the \$120.00 represents as a percent increase. So the total impact to the undergraduate students is 7.4 percent. If we could have gone to the Board of Regents' assumed level, that would have been \$2,100. The instructional fee assumed in the State budget is \$2,100, versus the \$1,764 instructional fee being recommended.

This budget is extremely difficult in that we must recommend tuition increases much higher than recent years. Non-resident undergraduate increases 11.6 percent. Graduate tuition increases 14.8 percent, while professional tuition increases 13 to 15.3 percent.

Mr. Teaford:

The rational for the non-residents paying more is that they don't pay state taxes that give us our state subsidy.

Mr. Ihrig:

That is correct.

President Jennings:

And further, Joel, we get no subsidy for the out-of-state student. What Weldon is recommending is bringing that tuition to the equivalent level of in-state tuition plus subsidy. That is the theory there, that is tuition plus subsidy.

Mr. Teaford:

The assumption there is that in-state people are paying taxes that cause the subsidy to happen. So that is why --

**1989-90 BUDGET PRESENTATION (contd)**

Mr. Ihrig:

Overall, undergraduate resident students will pay 6.8 percent more to attend Ohio State, live and park on campus, as well as purchase books. Graduate resident students will pay 10.3 percent more this year.

Ohio State's earnings operations rates will increase 5.7 percent on a weighted average basis. When tuitions are added, the composite rate increases to 6.9 percent.

We are recommending the 1989-90 Current Funds Budget for your approval, and I'll be glad to respond to your questions.

Amb. Wolf:

This is the operating budget, what is the capital budget for this year?

Mr. Ihrig:

That is a biennium budget and we are in the mid-year of the biennium on that. We received from the State of Ohio just around \$100 million at the start of the last biennium for capital expenditures. So we are in the process of expending that. Those are on a project basis. I would have to get you that number.

Mr. Teaford:

Because we also have capital expenditures that are not in this one, in addition to that \$100 million. The Cancer Center and the Wexner Center would be two examples.

President Jennings:

Cancer Center, Lazenbee, and Enarson Hall.

Mr. Ihrig:

Over the next six years we are projecting expenditures of around \$800 million, of which \$500 million will be requested from the State.

Amb. Wolf:

But for this biennium, this two years, you have \$100 million from the State for capital?

Mr. Ihrig:

Yes.

Mr. Teaford:

Which if those averages are right, our total capital budget is in the \$150-\$160 million.

**1989-90 BUDGET PRESENTATION (contd)**

Ms. Paige:

I would like to ask a question. I think my main concern right now, after looking over the budget, is just the basic attitude that graduate and professional school students can afford a 15 percent increase. Just looking at the progression of our society, we're saying that more people are going to have to be enrolled in graduate and professional schools just looking at the trend of technology. However, we are increasing tuition at such a rate where the common student is not going to be able to afford this tuition. So on one side of the story we are increasing the undergraduates who are going to be competent to enroll in graduate and professional school, but on the other side of the story we are increasing the graduate and professional students' tuition to such an extent that the transition is not going to be able to be made. I guess in my mind I cannot understand why we are not as concerned about keeping the in-state graduate and professional students' tuition as low as we are keep the undergraduate tuition.

Mr. Ihrig:

Our goal would be to try to and keep that as low. It is interesting, at one time back in 1970-71 the two tuitions for in-state graduate students and in-state undergraduate students were exactly the same. The problem is funding. The state models assume that the students at the graduate and professional levels are going to take a greater share of the total cost of their instruction and pay that themselves. All we are able to do at this point, unless we are going to move money from undergraduate revenues and support graduate students to a greater extent, is we have to then, based on the funding sources, put that burden on the students in order to keep the quality programs available. If we cut the programs too drastically, then we won't offer the quality programs that the graduate students and professional students are looking for. So we are caught in a box in that the State assumptions are exactly what you said, unfortunately, that the students should pay a greater proportion.

Mr. Teaford:

You showed us the State assumptions for undergraduates and how we were significantly lower. How do we relate to the State assumptions for graduate students?

Mr. Ihrig:

It was 68 percent. We would have to increase undergraduate instructional fees 19 percent to reach the State assumptions. We have to increase the graduate fees 68 percent to reach State assumptions.

Mr. Teaford:

So, in fact, we are even better -- relative to that measure, which may not be a fair one -- for graduate students than we are for undergraduate students.

President Jennings:

There is another issue here, too. On one of the previous charts, if you noticed, it showed \$3.4 million of student financial aid. In this budget there are sufficient



**1989-90 BUDGET PRESENTATION (contd)**

President Jennings: (contd)

increases in student financial aid to do two things: to accommodate all the increases, and to accommodate those students who become eligible for student aid because of the increases. So in this we continue the policy of the double stool of accessibility of modern tuition but financial aid as well. A great deal of that financial aid is going to go right back into the graduate and professional area as these increases take place. The other thing, as Mr. Teaford pointed out, is that we are further below the State assumptions on the graduate level than we are on the undergraduate. This is bringing that closer. This is one of the objections we have got to State funding. The State funding, while much improved, is a funding process that does not reward, indeed, penalizes those institutions who keep their tuitions low. As I pointed out, our budget would be \$34 million higher if we did what the State was instructing us to do. But by keeping our tuition low, we are shortchanging ourselves.

Mr. Teaford:

Also, it reflects that unfortunately the State has the view that -- as Paige is criticizing -- that we don't need a bunch of people beyond the undergraduate degree level. That is wrong, but that is their clear message.

President Jennings:

That has been the message for many years. Remember the national college going rate is 53 percent -- high school to college. The Ohio college going rate is 43 percent. We are among the lowest college going rates in the United States. But, there is some recognition of low tuition institutions in this by making it at 6 percent or \$120.00. Very little. That 6 percent -- that tuition increase there, again, had we, over the last several years, been with the State the percentage increase wouldn't be as great, but the dollar increase would be greater than it in fact is now. That is part of the difficulty here. We expected that the State would continue to join us in partnership with keeping accessibility. That is not happening.

Mr. Teaford:

The graduate school, because of the high percentage of students getting aid, we are really hitting the middle class in graduate school. That is who is really getting burdened, the ones who are just above the scholarship level abilities.

President Jennings:

A great many graduate students, -- of course, not so much with professional students -- but a great many graduate students are supported by research grants or things like that.

Mr. Kessler:

Any further questions?

## Background

### **1989-90 CURRENT FUNDS BUDGET**

#### **I. INTRODUCTION**

In June 1989, this Board approved a Provisional Budget enabling the University to initiate operations for the 1989-90 Fiscal Year. The provisional budget was adopted in accordance with the planning guidelines presented at that meeting. Budget legislation for the 1989-91 biennium has now been passed by the Ohio General Assembly. Therefore, the University 1989-90 Current Funds Budget can be recommended to the Board of Trustees.

The amount of instructional subsidy is critical in establishing Ohio State's position among the major research universities in the nation. Instructional subsidies account for approximately 58.5 percent of the University's general fund, the primary support for the academic core and related support activities. These resources also provide the foundation for continued growth in sponsored research and development monies. The actions by the Ohio General Assembly have provided a substantial increase in the instructional subsidies over the level recommended by the Governor's budget request, sustaining the upward trend begun two biennia ago.

However, to measure the impact on excellence and student tuitions, we need to look at the resource trends in relation to their real purchasing power over the decade of the 1980's. When using constant dollars, the real purchasing power of the instructional subsidies declined from 1979-80 through 1982-83 and did not return to the 1979-80 level until 1985-86. Funding for fiscal year 1985-86, combined with new support in 1986-87, created a biennium of real growth, allowing Ohio State to make significant progress in promoting excellence and holding down increases in student tuitions. Then, just as these new expectations were being realized, the real value of state support not only leveled off but declined during the 1987-89 biennium. Progress was sustained only through cost containment and reallocations of \$12 million in recurring dollars each year of the biennium. As we now begin the new biennium, 1989-90 provides us some gain, but by 1990-91 purchasing power of instructional subsidies are again expected to decline.

In addition to not making real progress in the growth of the instructional subsidy, since 1979-80 revenues from student tuitions have not matched state assumptions. During this period, Ohio State has kept student tuition increases below those assumed in the state budgets. As a result, current undergraduate tuitions at Ohio State would need to be raised 21 percent to reach the State assumed levels. The \$120 per year cap on increases in undergraduate instructional fees does not enable Ohio State to pursue closing this gap in undergraduate tuitions as quickly as was planned.

Ohio State is not willing to compromise on excellence. Yet, over the past decade, the combined effects of major progress toward enhanced excellence and national recognition, student tuitions that are well below the State assumed levels, and annual internal reallocations to support new and expanded initiatives have taken their toll. While we will continue to hold down costs, we can no longer advance within the current levels of State funding without moving tuitions closer to the State assumed levels. Such action is taken reluctantly, with grave concern for the impact on our students. However, the faculty and staff are also sacrificing through lower levels of salary adjustments as well as paying part of the costs of their health insurance premiums.

Commitments to excellence remain in all areas of teaching and research as well as the related support and service activities. However, our rate of progress must be tempered as we take actions to keep within the level of resources provided by the State budget for the biennium 1989-91. These actions will require that Ohio State not only continue to reallocate resources, but challenge all areas to search for ways to reduce costs even more, which will include the

Background (contd)

**1989-90 CURRENT FUNDS BUDGET (contd)**

evaluation of whether all activities being performed are relevant within today's available resources.

**II. SOURCES OF FUNDS**

Current Funds Budget Resources proposed for 1989-90 total \$1,080,290,000, as summarized by funding source in the Budgeted Resources. This amount includes State support totaling \$339,640,000, which represents 31.4 percent of the total resources budgeted. Other major sources of income include student tuitions, 15.6 percent; government grants and contracts, 12.9 percent; and hospital sales and services at 20.6 percent.

The core instructional and general budgets of the University--Unrestricted General Funds--are budgeted to have resources of \$475,930,000, which amounts to 44.1 percent of total resources. Earnings operations, which include activities such as University Hospitals, Residence Halls, and Athletics, are budgeted to bring in \$349,890,000, which accounts for 32.4 percent of total resources. The remaining 23.5 percent of resources is in the restricted fund group which includes sponsored research projects, most private gifts, and such State-funded line-item activities as the Ohio Cooperative Extension Service and the Ohio Agricultural Research and Development Center.

The recommended tuition rates for both residents and non-residents of the various colleges and schools are shown in the Student Fee Schedules. In the past, Ohio State's tuition increases have been considerably less than those assumed in the state's instructional subsidy appropriation. In 1988-89, Ohio State's annual undergraduate tuitions were 351 dollars below the State assumed levels. For 1989-90, this University's plans were to begin to reduce this gap through a series of increases over three to four years. However, the General Assembly has mandated a tuition cap of \$120 on resident undergraduate instructional fees, in essence penalizing the University for minimizing past fee increases. As a result, this budget includes the recommended increase in the resident undergraduate instructional fee of \$120 on an annual basis. In addition, general fees are recommended to increase \$30 per year.

Since the gap between the fee assumptions and Ohio State's tuition charges is even greater for graduate and professional instructional fees, increases in these fees are being recommended for a net increase, including general fees, of 13 to 15 percent. These fees are expected to remain below the average within the Big Ten, with medical and dental student instruction fees still falling below national averages.

The review of tuitions charges for non-resident students indicates that the fees for undergraduate, graduate, and professional non-resident students continue to fall short of the targeted three-to-one ratio. Therefore, the non-resident surcharge for undergraduate students is recommended to increase 14 percent to continue the trend toward the three-to-one goal. However, due to the large increases in the graduate and professional instructional fees, non-resident surcharges for these students are recommended to increase the same percentage as their resident fees for 1989-90.

In addition to the changes in instructional and general fees, increases in some admission application and acceptance fees are being recommended. All domestic admission application fees except those for graduate students are being recommended to be set at \$20 versus the \$15 and \$10 currently charged. Acceptance fees for all undergraduate students as well as domestic graduate students are recommended to be \$50, with professional students at \$25. Overall, the

Background (contd)

**1989-90 CURRENT FUNDS BUDGET (contd)**

recommended fee changes place Ohio State in a competitive position with other universities while increasing the incentive to receive only thoughtful applications and intentional acceptances. These changes are the recommendations of the University's Council on Admissions and Registrations, which is composed of faculty, students and staff.

A major revenue source for the University continues to be the sales and services of the earnings units. As a result of continuing efforts to monitor and limit increases in all fees and charges of the University, the average increase in all University rates and charges will be just under 7 percent. The weighted average of only the earnings operations has been held to 5.7 percent, with Athletics and Traffic and Parking proposing average rate increases of slightly over 3 percent. Just as general funds units may institute internal reallocation methods to fund some desired programs, earnings operations retain the same option.

**III. USES OF FUNDS**

As detailed in the schedule and supporting documents of budgeted uses for Fiscal Year 1989-90, the University's planned expenditures from current funds total \$1,079,950,000. This level of recommended Current Funds expenditures will support the following budget planning guidelines reviewed with the Board of Trustees at the June 2, 1989, meeting.

- \* Increase faculty, administrative and professional, and classified staff salaries by \$480 per year and provide 2 percent in salary funds for selective merit increases, with a pool of \$1.3 million available on a competitive basis for equity, excellence and market adjustments.
- \* Fund compensation increases for negotiated wage settlements.
- \* Provide funding to maintain the purchasing power of University-funded student financial aid, plus cover new students who may qualify with increases in tuition.
- \* Provide resources to meet mandatory cost increases, such as utilities and employee benefits.
- \* Provide an additional \$1.5 million for library book acquisitions.
- \* Fund previous commitments such as the Young Scholars Program, curriculum enhancement, and the Wexner Center operations.

In addition, each college and office is being requested to define one percent of their 1989-90 budgets for reallocation. This action to lower costs and eliminate low priority activities and services will provide resources which will remain within the colleges and offices to address their highest priority needs.

This balanced budget for 1989-90 is being presented for Board of Trustees approval.

**1989-90 CURRENT FUNDS BUDGET**

Resolution No. 90-17

Synopsis: The Fiscal Affairs Committee recommended the approval of the budget for fiscal year 1989-90.

WHEREAS the levels of State support have been established with the enactment of budget legislation for the 1989-91 biennium; and

WHEREAS appropriate planning and consultation within the University have been accomplished; and

WHEREAS this Board approved a provisional expenditure budget for 1989-90 at its June meeting which is the basis for this budget for 1989-90; and

WHEREAS the President is now prepared to present the final 1989-90 budget:

NOW THEREFORE

BE IT RESOLVED, That the University Current Funds Budget for Fiscal Year 1989-90, as described in the accompanying text and tables, be approved, with authorization for the President to make expenditures within the projected income levels; and

BE IT FURTHER RESOLVED, That student fees be increased for all students beginning Autumn Quarter 1989, as specified in the Schedule of Student Fees incorporated in this resolution effective Autumn Quarter 1989; and

BE IT FURTHER RESOLVED, That the Secretary be instructed to incorporate all supporting documents into the minutes of this meeting, salary rolls with promotions, authorizations to purchase an annuity for Jack M. Hollander and to purchase retirement credit for David P. Mayers, and fees and charges for the Fiscal Year 1989-90, and to file these materials with the official records of the University.

Mr. Berry:

Before I ask for a motion on the President's budget recommendations, I would like to make the following report. On July 7, the Personnel Committee of this Board met to review the President's salary and to develop a recommendation for consideration by the entire Board. It is the Committee's conclusion that the President has continued to carry out his responsibilities in a manner consistent with the high expectations and ideals of the University. The role of a CEO is not an easy one, particularly in a major public educational institution. To manage and balance the many diverse interests, and to minimize the inherent conflicts necessarily associated with the University, is a splendid achievement.

Recognizing the President's contributions to this institution and recognizing the current financial condition of the University, the Committee recommends that the President receive a salary increase of 5 percent for the fiscal year ending June 30, 1990. The Secretary of the Board is hereby authorized and directed to develop the appropriate documents to effectuate this change in salary.

May I now have a motion to approve the President's budget report and recommendations, as well as the Personnel Committee's salary recommendation for President Jennings?

July 7, 1989 meeting, Board of Trustees

**1989-90 CURRENT FUNDS BUDGET (contd)**

Upon motion of Mr. Kessler, seconded by Mr. Teafor, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Berry, Teafor, Barone, Kessler, and Wolf, and Mrs. Bowser, and a negative vote cast by Ms. Casto.

Ms. Casto:

I vote no for the same reasons I indicated at the last meeting.

(See Appendix V for the charts on The Ohio State University 1989-90 Current Funds Budget, page 129.)

--0--

Thereupon the Board adjourned to meet Wednesday, August 23, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

John W. Berry  
Chairman

**APPENDIX I**

**THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY**  
**June 16, 1989**

**Presented to the Investments Committee and  
Adopted by the Board of Trustees July 7, 1989  
(See page 15)**



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261  
Cable: OSU TRES UD

**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
June 16, 1989**

**Endowment Composition**

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>06-16-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 35,131,237 (2)	14.31%
Nicholas-Applegate	10,454,591	5.10	11,856,536	4.83
Siebel	34,428,707	16.81	32,186,414 (3)	13.11
Mutual Fund	17,462,592	8.53	13,756,362	5.61
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>78,209,711</u>	<u>31.86</u>
<b>Total Equities</b>	<b>\$133,632,655</b>	<b>65.24%</b>	<b>\$171,140,260</b>	<b>69.72%</b>
<b>Fixed Income:</b>				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 23,192,412	9.45%
Cambridge	921,925	0.45	940,949	0.38
Duff & Phelps	9,983,561	4.87	10,108,910	4.12
STW Fixed Income	22,300,069	10.89	23,588,799	9.61
OSU - GNMA	9,954,372	4.86	10,045,865	4.09
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,466,143</u>	<u>2.63</u>
<b>Total Fixed Income</b>	<b>\$ 71,210,234</b>	<b>34.76%</b>	<b>\$ 74,343,078</b>	<b>30.28%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$204,842,889</b>	<b><u>100.00%</u></b>	<b>\$245,483,338</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 43,089,186</b>		<b>\$ 36,466,844 (4)</b>	
<b>Total Portfolio</b>	<b><u>\$247,932,075</u></b>		<b><u>\$281,950,182</u></b>	

(1) Formerly Centerre Trust.

(2) Commitment was reduced by \$7,500,000 as of May 31, 1989.

(3) Commitment was reduced by \$7,500,000 as of May 31, 1989.

(4) Real Estate reported at most recent appraised value.



Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value June '88 to June '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.58% (1)	14.32%	17.90%
Common Stock (Nicholas-Applegate)	1.69 (2)	15.95	17.64
Common Stock (Siebel)	4.58 (3)	17.74	22.32
Mutual Fund	2.94	17.81	20.75
Common Stock (OSU Managed)	5.32 (4)	10.26	15.58
Standard & Poor's Index	3.78	18.72	22.50
<b>Real Estate:</b>	4.37%	-0- (11)	4.37%

**Fixed Income:**

Bonds (Boatmen's Trust, formerly Centerre Trust)	8.40% (5)	5.15%	13.55%
Bonds (Cambridge)	8.73 (6)	1.54	10.27
Bonds (Duff & Phelps)	8.85 (7)	2.24	11.09
Bonds (SIW Fixed Income)	9.22 (8)	8.06	17.28
Bonds (OSU - GNMA)	9.94 (9)	2.00	11.94
Bonds (OSU Managed)	8.55 (10)	(0.38)	8.17
Verrill Lynch Corporate/ Government Master	8.90	3.12	12.02

- (1) 2.7% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.2%.
- (2) 1.9% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.6%.
- (3) 45.6% of Siebel portfolio is made up of cash and cash equivalents which earn 9.3%.
- (4) 64.0% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.5%.
- (5) 6.0% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.2%.
- (6) 4.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.6%.
- (7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.6%.
- (8) 0.9% of SIW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.6%.
- (9) 0.9% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.6%.
- (10) 92.8% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 8.6%.
- (11) Not able to compare 12 months.
- (12) Endowment Fund Income through June 30, 1989, totaled approximately \$15,527,000.
- (13) Income from University Cash Investments through June 30, 1989, totaled approximately \$14,408,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>06-16-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$105,213,770	37.32%
Principal Additions	13,883,029	Fixed Income	66,478,444	23.58
Principal Withdrawals	(166,410)	Real Estate	36,358,000	12.89
Change in Market Value	<u>20,301,488</u>	Cash	<u>73,899,968</u>	<u>26.21</u>
<b>Current Market Value</b>	<b><u>\$281,950,182</u></b>	<b>Total Portfolio</b>	<b><u>\$281,950,182</u></b>	<b><u>100.00%</u></b>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
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No Activity

Real Estate

Sale

Total Investment

House and .23 acres of land at  
760 Beautyview Court, Columbus.  
Sales price is \$114,500.\*

\$100,000

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
800	Applied Biosystems, Inc.	Nicholas- Applegate	38.1562	\$ 30,525.00	\$ 0.00
4,300	Motorola, Inc.	"	57.5387	247,674.50	2,752.00
5,600	Transco Energy Co.	"	43.6133	244,570.70	7,616.00
13,000	Lancaster Colony Corp.*	OSU	21.6250	281,125.00	8,840.00
70	Limited, Inc.*	"	31.8126	2,226.88	16.80
10,000	Fireman's Fund Corp.	Siebel	35.5000	355,600.00	4,000.00
10,000	Norton Co.	"	50.6880	507,480.00	20,000.00
3,500	United Airlines Corp.	"	119.9480	<u>420,063.00</u>	<u>0.00</u>
				<u>\$2,089,265.08</u>	<u>\$43,224.80</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
9,500	Hechinger Co., Cl. A	Chicago	17.7500	\$ 168,625.00	\$ 14,250.00
327,326	Neuburger Berman Energy Fund	Mutual Funds	19.9400	6,526,869.13	1,255,687.01
6,400	Novell, Inc.	Nicholas- Applegate	30.7020	196,492.80	20,082.96
3,700	Reynolds Metal Co.	"	53.4360	197,484.60	26,649.12
4,700	Union Bank of San Francisco	"	26.0284	122,333.50	(4,566.50)
3,300	Warner Communications, Inc.	"	56.5962	186,563.26	68,517.76
50	Nevada Power Co.*	OSU	21.2500	1,050.46	0.46
250	Fidelity Magellan Fund*	"	51.9900	13,004.73	(32.51)
5,500	Cooper Industries, Inc.	Siebel	32.2500	176,984.08	31,108.86
2,500	Federal National Mortgage Assn.	"	85.7500	214,192.85	137,561.35
9,000	Holiday Corp.	"	49.2900	443,055.21	196,956.21
3,000	Loews Corp.	"	108.2630	324,568.17	187,179.54
9,500	Merck & Co., Inc.	"	69.1725	656,452.08	136,013.58
8,000	Morton Thiokol, Inc.	"	45.7660	365,555.79	58,894.95
35,000	Primerica Corp.	"	22.2780	777,254.00	(33,127.00)
7,000	Toys-R-Us, Inc.	"	31.0000	216,502.76	60,975.76
6,500	Union Pacific Corp.	"	73.0000	474,500.00	36,012.92
8,000	Wilmington Trust Co.	"	35.5000	<u>284,000.00</u>	<u>139,145.83</u>
				<u>\$11,345,488.42</u>	<u>\$2,331,310.30</u>

\* Gift.

The Ohio State University  
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
655,932	Federal Home Loan Mortgage Series 34-H 8.000% 03/15/20	Boatmen's	11.0155	11.1650	72.6250	\$ 476,370.85
609,538	Federal National Mortgage Assn. #1989-10 9.500% 04/25/17	"	10.7912	10.8703	88.0343	536,602.19
971,248	Government National Mortgage Assn. #2024 7.879% 05/01/17	"	9.1883	9.3191	85.7500	<u>832,844.75</u>
						<u>\$1,845,817.79</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
4,000	Chevron Corp.* 7.000% 04/01/96	OSU	90.5445	\$3,621.78	\$0.00
				<u>\$3,621.78</u>	<u>\$0.00</u>

\* Gift.

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	Yield	Acquired	Unrevalued	Appraised Value	Date Appraised
Building and 3.295 acres at 930 Kinnear Road	10.46X	1962	\$ 435,204	\$ 1,400,000	06/87
Building and 5.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/87
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/87
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,493	2,300,000	06/87
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	370,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hanger at Don Scott Field (Loan)	.00	1973	31,997 (1)	31,997	N/A
Hanger addition at Don Scott Field (Loan)	10.00	1978	76,847 (1)	76,847	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	10/87
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/87
48.32 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/87
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/87
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/87
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/87
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,448	950,000	05/88
17.92 acres of land on Kitzman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	3,767,263	5,460,000	02/85
			<u>\$11,339,725</u>	<u>\$18,466,841</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
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Phone 614-292-6261  
Cable: OSU TRES UD

**MEMORANDUM**

Subject: Proxy Solicitations

Date: June 30, 1989

From: James L. Nichols, Treasurer

To: Board of Trustees, The Ohio State University

During the month of June 1989, the University voted 8 proxies.

Management proposals were as follows:

- 1) Election of the directors;
- 2) Classify the Board of Directors;
- 3) Change the date and the time of the annual meeting;
- 4) Add the Chairman of the Board to the officers authorized to call special meetings of shareholders;
- 5) Approval of the independent auditors;
- 6) Approval of the corporate reorganization plan, along with the redistribution of common stock and the appropriate changes in the company's by-laws;
- 7) Approval of a 2-for-1 split of the outstanding common stock;
- 8) Approval of a merger of two independent concerns into one concern;
- 9) Approval of the 1989 stock incentive plan, effective upon consummation of the above merger;
- 10) Ratification of the 1989 Management Incentive Plan.

Shareholder proposals were as follows:

- 1) Election of directors annually.

The University voted for all management proposals and against the shareholder proposal, which management also opposed.



The 8 corporations were:

- 1) American Greetings Corporation
- 2) Comcast Corporation
- 3) Ennis Business Forms, Incorporated
- 4) McKesson Corporation
- 5) Morton Thiokol Incorporated
- 6) Oracle Systems Corporation
- 7) Rite Aid Corporation
- 8) Time, Incorporated

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**APPENDIX II**

**THE OHIO STATE UNIVERSITY ENDOWMENT FUND PROPERTY  
June 20, 1989**

**Presented to the Investments Committee  
(See page 15)**

THE OHIO STATE UNIVERSITY  
ENDOWMENT FUND PROPERTY  
AS OF JUNE 20, 1989

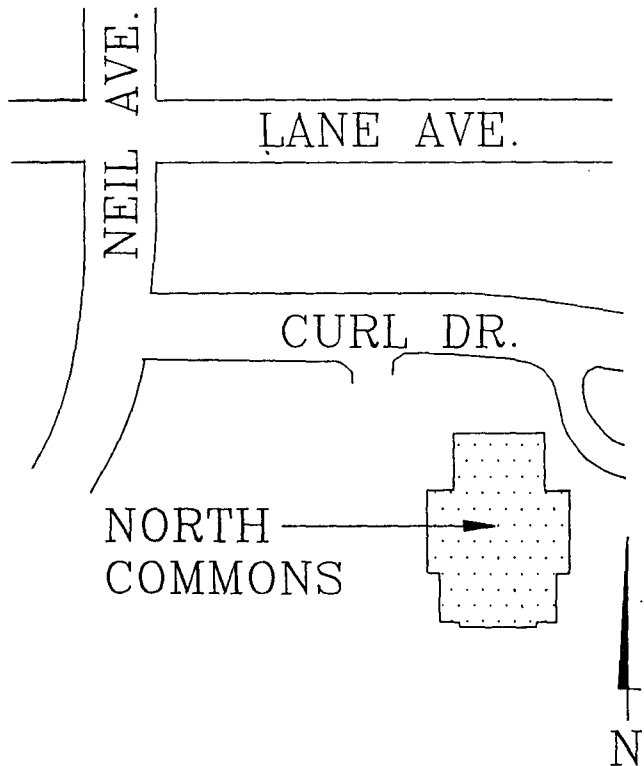
PROPERTY	YEAR ACQD	COST	YEAR APPD	APPRAISED VALUE	FY-1989 YIELD	AVG. ANNUAL APPRECIATION	TOTAL RETURN
930 KINNEAR ROAD	1962	\$435,204	1989	\$1,550,000	24.37%	4.82%	29.19%
1100 KINNEAR ROAD	1984	825,000	1989	2,650,000	12.00%	26.29%	38.29%
1900 KENNY ROAD	1961	659,930	1989	1,250,000	23.79%	2.31%	26.10%
1960 KENNY ROAD	1971	1,320,693	1989	2,500,000	19.69%	3.61%	23.30%
1991 KENNY ROAD	1968	170,000	1989	696,000	11.85%	6.94%	18.80%
DELAWARE COUNTY (WOSU)	1971	100,793	1989	641,000	3.17%	10.82%	14.00%
HARRISBURG PIKE	1986	190,000	1989	283,000	0.00%	14.20%	14.20%
2809 W. GRANVILLE ROAD	1962	160,265	1989	2,896,000	0.00%	11.32%	11.32%
3025 W. GRANVILLE ROAD	1972	544,398	1989	4,367,000	0.00%	13.03%	13.03%
3253 W. GRANVILLE ROAD	1968	310,538	1989	6,853,000	0.36%	15.87%	16.23%
3371 W. GRANVILLE ROAD	1971	265,079	1989	2,749,000	0.00%	13.88%	13.88%
3371 W. GRANVILLE ROAD	1986	2,078,666	1989	2,880,000	0.15%	11.48%	11.63%
3483 W. GRANVILLE ROAD	1965	24,000	1989	1,080,000	0.00%	17.19%	17.19%
3505 W. GRANVILLE ROAD	1968	17,114	1989	770,000	0.00%	19.87%	19.87%
1375 S. HAMILTON ROAD	1986	95,000	1986	95,000	-12.07%	0.00%	-12.07%
SHIER-RINGS ROAD	1978	241,848	1988	950,000	0.00%	14.66%	14.66%
EITERMAN ROAD	1978	25,152	1988	725,000	0.00%	39.95%	39.95%
VA CLINIC	1979	3,767,261	1985	6,460,000	0.38%	9.40%	9.78%
TOTALS		\$11,230,941		\$39,395,000			

### **APPENDIX III**

#### **DINING COMMONS REMODELING - PHASE I, NORTH COMMONS**

**Adopted by the Board of Trustees July 7, 1989  
(See page 81)**

DINING COMMONS  
REMODELING  
NORTH COMMONS



OFFICE OF BUSINESS AND ADMINISTRATION  
JULY 7, 1989

#### **APPENDIX IV**

**MASONRY REPAIRS - BRICKER HALL  
MASONRY REPAIRS - POMERENE HALL  
DODD HALL INTERFACE  
DODD HALL HVAC SYSTEM MODIFICATIONS**

**Adopted by the Board of Trustees July 7, 1989  
(See page 82)**

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

MASONRY REPAIRS - BRICKER HALL

Tabulation of Bids

Bids received by The Ohio State University on May 16, 1987. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "\*".

<u>General Contract</u>	<u>Estimate</u>	<u>General Maint. *</u>	<u>J &amp; P Paving</u>	<u>Olentangy Rest.</u>	<u>H. K. Phillips</u>
Base Bid	\$61,000.00	\$53,898.00	\$58,600.00	\$59,700.00	\$66,658.00
Alt. G-1 (Ext. Stone Steps)	\$15,000.00	+5,278.00	+5,200.00	+5,000.00	+2,900.00
Total General Contract	\$76,000.00	\$59,176.00	\$63,800.00	\$64,700.00	\$69,558.00

	<u>L. M. C.</u>	<u>Grunwell</u>
Base Bid	\$81,600.00	\$45,750.00
Alt. G-1 (Ext. Stone Steps)	\$7,140.00	+51,750.00
Total General Contract	\$88,740.00	\$97,500.00



# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## MASONRY REPAIRS - POMERENE HALL

### Tabulation of Bids

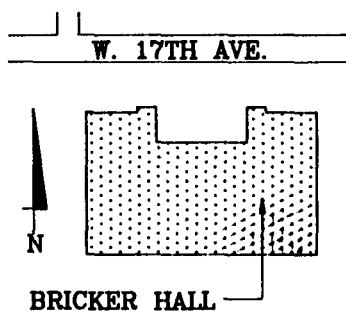
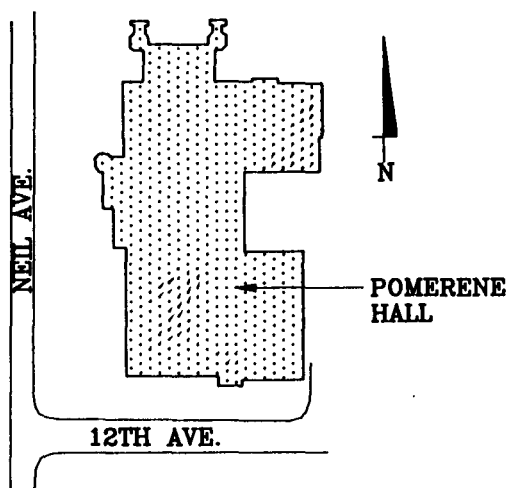
Bids received by The Ohio State University on May 16, 1987. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "\*\*".

<u>General Contract</u>	<u>Estimate</u>	<u>H. K. Phillips *</u>	<u>Grunwell</u>	<u>J &amp; P Paving</u>	<u>Olentangy Rest.</u>
Item 1 - Pomerene Hall	\$160,000.00	\$115,664.00	\$120,000.00	\$133,000.00	\$183,900.00
Total General Contract (Includes all alternates)	\$160,000.00	\$115,664.00	\$120,000.00	\$133,000.00	\$183,900.00

### L.N.C.

Item 1 - Pomerene Hall	\$208,813.00
Total General Contract (Includes all alternates)	\$208,813.00

MASONRY REPAIR  
BRICKER HALL  
POMERENE HALL



# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## DODD HALL INTERFACE

### Tabulation of Bids

Bids received by The Ohio State University on May 4, 1989. Bids opened by Tamara Bell and tabulated by Robert Lopeman. Awards indicated with an "\*".

<u>General Contract</u>	<u>Estimate</u>	<u>Functional Devel. *</u>	<u>Ed Ross</u>	<u>Cody Zeigler</u>	<u>Gutknecht</u>
Base Bid - No Alternates	\$1,142,890.00	\$987,769.00	\$997,500.00	\$1,037,000.00	\$1,062,241.00
Total General Contract	\$1,142,890.00	\$987,769.00	\$997,500.00	\$1,037,000.00	\$1,062,241.00

### R & J

Base Bid - No Alternates	\$1,090,000.00
Total General Contract	\$1,090,000.00

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## DODD HALL HVAC SYSTEMS MODIFICATIONS

### Tabulation of Bids

Bids received by The Ohio State University on May 18, 1989. Bids opened by Tamara Bell and tabulated by Robert Lopeman. Award indicated with an "\*".

<u>Fire Protection Contract</u>	<u>Estimate</u>	<u>Franklin Fire *</u>	<u>Commale</u>	<u>Capital Fire</u>	<u>Culligan Fire</u>
Base Bid - No Alternates	\$182,694.00	\$135,912.00	\$157,105.00	\$179,179.00	\$197,785.00
Total Fire Protection Contract	\$182,694.00	\$135,912.00	\$157,105.00	\$179,179.00	\$197,785.00

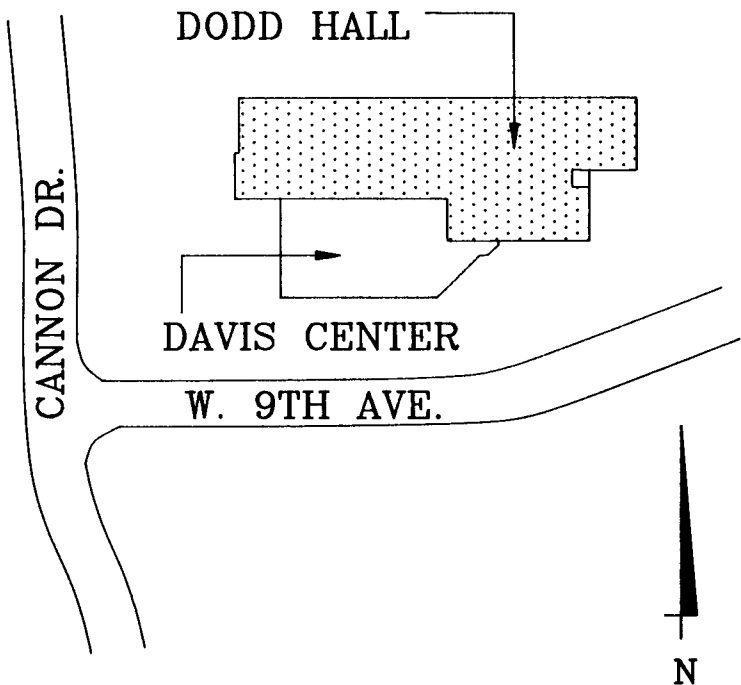
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>C. W. Constr. *</u>	<u>J. A. Meyers</u>	<u>Westland Mech.</u>	<u>J. A. Croson</u>
Base Bid - No Alternates	\$149,073.00	\$109,975.00	\$117,767.67	\$124,800.00	\$130,989.00
Total Plumbing Contract	\$149,073.00	\$109,975.00	\$117,767.67	\$124,800.00	\$130,989.00

	<u>Marco</u>	<u>Radico</u>
Base Bid - No Alternates	\$137,000.00	\$162,200.00
Total Plumbing Contract	\$137,000.00	\$162,200.00

<u>HVAC Contract</u>	<u>Estimate</u>	<u>J. A. Guy *</u>	<u>Farber</u>
Base Bid - No Alternates	\$550,919.00	\$603,700.00	\$607,700.00
Total HVAC Contract	\$550,919.00	\$603,700.00	\$607,700.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Royal *</u>	<u>Buckeye</u>	<u>Goodin</u>	<u>Demos</u>
Base Bid - No Alternates	\$286,300.00	\$278,600.00	\$284,300.00	\$295,558.00	\$299,300.00
Total Electric Contract	\$286,300.00	\$278,600.00	\$284,300.00	\$295,558.00	\$299,300.00

# DODD HALL HVAC SYSTEM MODIFICATIONS AND INTERFACE



OFFICE OF BUSINESS AND ADMINISTRATION  
JULY 7, 1989

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## APPENDIX V

### 1989-90 CURRENT FUNDS BUDGET

Adopted by the Board of Trustees July 7, 1989  
(See page 104)

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET

Budgeted Resources  
(In Millions of Dollars)

	1988-89 Budget June 3, 1988	1988-89 Revised Estimate	1989-90 Proposed Budget
Central Campus			
State Appropriations	\$284.72	\$283.58	\$304.64
Student Fees	144.55	145.55	158.69
Other Resources			
Federal Grants and Contracts	94.03	96.17	102.88
Ohio Grants and Contracts	12.05	14.06	15.53
Local Grants and Contracts	12.44	12.56	13.84
Private Gifts and Grants	51.00	53.73	61.86
Endowment Income	9.10	9.10	10.35
Department and University Services	27.43	27.43	28.77
Auxiliary Sales & Charges	82.09	81.35	86.25
Hospital Sales & Services	201.35	201.93	222.45
Other Sources	17.05	17.40	13.54
Total Other Resources	\$506.54	\$513.73	\$555.47
Total Central Campus	\$935.81	\$942.86	\$1,018.80
Regional Campuses			
State Appropriations	12.18	11.93	13.30
Student Fees	8.82	9.16	9.77
Other Resources	3.24	3.49	4.58
Total Regional Campuses	\$24.24	\$24.58	\$27.65
OARDC			
State Appropriations	19.54	19.54	21.70
Federal	6.65	6.65	7.60
All Other	3.92	3.92	4.54
Total OARDC	\$30.11	\$30.11	\$33.84
Total University			
State Appropriations	316.44	315.05	339.64
Student Fees	153.37	154.71	168.46
Other Resources	520.35	527.79	572.19
Total University	\$990.16	\$997.55	\$1,080.29



THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET

Budgeted Uses  
(In Millions of Dollars)

	1988-89 Budget June 3, 1988	1988-89 Revised Estimate	1989-90 Proposed Budget
Central Campus			
Educational & General	\$630.71	\$636.57	\$689.15
Auxiliary Enterprises			
Residence & Dining Halls	36.42	37.45	38.65
Intercollegiate Athletics	20.70	20.70	21.93
Other Auxiliaries	31.02	30.84	32.02
Total Auxiliaries	\$88.14	\$88.99	\$92.60
University Hospitals	216.96	217.29	236.94
Total Central Campus	\$935.81	\$942.85	\$1,018.69
Regional Campuses			
Agricultural Technical Institute	5.83	6.16	6.57
Lima Campus	5.03	5.03	5.49
Mansfield Campus	4.53	4.48	4.94
Marion Campus	3.88	4.05	4.74
Newark Campus	4.66	4.54	5.68
Total Regional Campuses	\$23.92	\$24.25	\$27.42
OARDC	30.11	30.11	33.84
Total Uses	\$989.84	\$997.21	\$1,079.95

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Undergraduate Colleges						
Agriculture						
Allied Medical Prof.						
Architecture						
The Arts						
Biological Sciences						
Business						
Continuing Education						
Dental Hygiene						
Education						
Engineering	0	49	9	58	57	115
Health, Phys. Educ., & Rec.	1	98	18	116	114	230
Home Economics	2	123	27	150	227	377
Humanities	3	147	36	183	341	524
Journalism	4	196	47	243	454	697
Mathematics & Physical Sci.	5	245	59	304	568	872
Music	6	294	71	365	682	1,047
Natural Resources	7	343	83	426	795	1,221
Nursing	8	392	95	487	909	1,396
Pharmacy	9	441	107	548	1,022	1,570
Social & Behavioral Sciences	10	490	118	608	1,136	1,744
Social Work	11	539	130	669	1,249	1,918
University College	12+	588	142	730	1,363	2,093
Graduate School						
	0	55	9	64	79	143
	1	110	18	128	157	285
	2	177	28	205	313	518
	3	265	43	308	470	778
	4	353	57	410	626	1,036
	5	442	71	513	783	1,296
	6	530	85	615	939	1,554
	7	618	99	717	1,096	1,813
	8	706	114	820	1,252	2,072
	9	795	128	923	1,409	2,332
	10+	883	142	1,025	1,565	2,590

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
<b>Graduate Professional</b>						
Law	0	98	14	112	156	268
(Fees Per Semester)	1	195	27	222	312	534
	2	313	43	356	500	856
	3	469	64	533	749	1,282
	4	625	85	710	999	1,709
	5	782	107	889	1,249	2,138
	6	938	128	1,066	1,499	2,565
	7	1,094	149	1,243	1,749	2,992
	8	1,250	170	1,420	1,998	3,418
	9	1,407	192	1,599	2,248	3,847
	10+	1,563	213	1,776	2,498	4,274
<b>Pharmacy, Doctor of</b>	0	65	9	74	104	178
(Fees Per Quarter)	1	130	18	148	208	356
	2	208	28	236	333	569
	3	313	43	356	500	856
	4	417	57	474	666	1,140
	5	521	71	592	833	1,425
	6	625	85	710	999	1,709
	7	729	99	828	1,166	1,994
	8	834	114	948	1,332	2,280
	9	938	128	1,066	1,499	2,565
	10+	1,042	142	1,184	1,665	2,849

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
<b>Graduate Professional</b>						
Medicine	0	116	9	125	225	350
(Fees Per Quarter)	1	231	18	249	450	699
	2	370	28	398	720	1,118
	3	555	43	598	1,080	1,678
	4	740	57	797	1,440	2,237
	5	925	71	996	1,801	2,797
	6	1,110	85	1,195	2,161	3,356
	7	1,295	99	1,394	2,521	3,915
	8	1,480	114	1,594	2,881	4,475
	9	1,665	128	1,793	3,241	5,034
	10+	1,850	142	1,992	3,601	5,593
Dentistry	0	93	9	102	201	303
Optometry	1	186	18	204	402	606
Veterinary Medicine	2	298	28	326	643	969
(Fees Per Quarter)	3	447	43	490	965	1,455
	4	596	57	653	1,286	1,939
	5	746	71	817	1,608	2,425
	6	895	85	980	1,930	2,910
	7	1,044	99	1,143	2,251	3,394
	8	1,193	114	1,307	2,573	3,880
	9	1,342	128	1,470	2,894	4,364
	10+	1,491	142	1,633	3,216	4,849

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET

Student Fee Schedule (Fees Per Quarter)

College or School	Credit Hours Enrollment	Instruct. Fees	General Fees	Resident Total	Non- Resident Tuition	Non- Resident Total
Regional Campuses						
Undergraduate	0	49	7	56	57	113
	1	98	14	112	114	226
	2	123	22	145	227	372
	3	147	29	176	341	517
	4	196	38	234	454	688
	5	245	48	293	568	861
	6	294	57	351	682	1,033
	7	343	67	410	795	1,205
	8	392	76	468	909	1,377
	9	441	86	527	1,022	1,549
	10	490	95	585	1,136	1,721
	11	539	105	644	1,249	1,893
	12+	588	114	702	1,363	2,065
Graduate	0	55	7	62	79	141
	1	110	14	124	157	281
	2	177	23	200	313	513
	3	265	34	299	470	769
	4	353	46	399	626	1,025
	5	442	57	499	783	1,282
	6	530	68	598	939	1,537
	7	618	80	698	1,096	1,794
	8	706	91	797	1,252	2,049
	9	795	103	898	1,409	2,307
	10+	883	114	997	1,565	2,562

### AUTHORIZATIONS

The University, in its negotiations to secure the services of Jack Hollander as Vice President for Research and Graduate Studies in 1983, made a commitment to compensate Dr. Hollander for his loss of retirement income in the State Retirement System of California which would result from his accepting his appointment at The Ohio State University.

The difference between the retirement income Dr. Hollander would have received had he remained in the California State Retirement System and the retirement income to which he will be entitled as a result of his six year appointment at The Ohio State University combined with his current California retirement entitlement is approximately \$1,700 per month.

The University has agreed to purchase an annuity on Dr. Hollander's behalf which will provide the institution with sufficient income to raise the retirement benefit for Dr. Hollander to the level it would have been had he remained employed by the University of California, Berkeley, and retired at age 62 within the State of California Retirement System, accordingly.

The Vice President for Personnel Services is authorized to effect the purchase of such an annuity on behalf of the University.

**AUTHORIZATIONS (contd)**

Under State law, provision is made for supplementing a person's retirement benefits by the purchase of prior years of military service.

The purchase of 5 years of service by the University is consistent with the terms stipulated in the original letter of offer and subsequent appointment of Professor David Mayers.

Professor David Mayers qualifies under this law for the purchase of additional years of such credit from State Teachers Retirement System of Ohio, accordingly.

Effective July 1, 1989, the Secretary of the Board of Trustees is authorized to implement the purchase of such prior service credit (not to exceed a total of five (5) years) in increments as provided in Section 3307 of the Ohio Revised Code in the State Teachers Retirement System of Ohio on behalf of David Mayers and that the cost of service should be paid from unrestricted monies received by the University pursuant to Section 3345.16 of the Ohio Revised Code.

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THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTY-THIRD MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, August 23, 1989

The Board of Trustees met at its regular monthly meeting on Wednesday, August 23, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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August 23, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on August 23, 1989, at 11:10 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

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### INTRODUCTION OF ALEX SHUMATE

Mr. Berry introduced the new member of the Board of Trustees:

I am happy to have the opportunity to formally introduce Alex Shumate as our newest Trustee today and to welcome him to our Board. Mr. Shumate is a partner with the law firm of Squire, Sanders & Dempsey in Columbus, having joined the firm after serving the Governor as Deputy Chief of Staff and Chief Counsel for several years. In addition to his professional activities, Mr. Shumate has been very active in community affairs, including service on the boards of the Columbus Museum of Art, the Columbus Urban League, Ballet Metropolitan and Ohio Wesleyan University. We all look forward to Mr. Shumate's participation with this Board and the oversight of The Ohio State University. I should note here that Mr. Shumate is a graduate of Ohio Wesleyan University and received his law degree from the University of Akron School of Law. Please join me in welcoming Alex Shumate as a Trustee.

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### HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its standing committees met on Thursday, July 27.

The Professional Affairs/Education/Research Committee devoted much of its time to issues of methodologies related to defining, measuring, and enhancing the quality of patient care. Ms. Susan Insley, Committee chairperson, reported on the program that she, Dr. Kramer, and Mr. Fraley attended. According to the meeting leaders, although responsibility for quality assurance has shifted from the individual physician to the institution and boards like ours, there are no nationally accepted standards on either what constitutes, or how to measure, quality of care. However, we do believe, and HCFA mortality statistics apparently confirm that University Hospitals does provide excellent patient care. And I might say, by far the finest patient care in this community. In fulfilling the Board's ethical and legal responsibility to be informed about quality of care, Ms. Insley is working with Mr. Fraley and Dr. Mekhjian to review University Hospitals' existing criteria and develop new criteria and measurement standards for reporting this information to the Board. Also, Dr. Mekhjian was asked to review with us the process for credentialing of Physicians in the Hospitals.

The Administrative/Operations Committee reviewed the Hospitals' preliminary year-end financial statement. Although the Hospitals' budget for 1988-89 anticipated a net loss of \$1.9 million, the actual loss was \$1.1 million. But, of course, we had no Cancer Hospital. A report summarizing Franklin County hospitals' shares of the healthcare market appears to indicate that those hospitals utilizing aggressive management and marketing strategies have increased their market share while

## **HOSPITALS BOARD COMMITTEE REPORT (contd)**

Mr. Teaford (contd)

University Hospitals' share has remained constant during the past four years. Those studies seem to indicate that we have indeed lost our dominance in the out-of-Franklin County tertiary care market, and I think that is cause for considerable concern. It is a very, very competitive business right now as all of you who have TV sets know. We are really going to have to face that problem. Since volume is critical to the Hospitals' fiscal stability, this emphasizes the importance of implementing the Medical Center's Strategic Plan. Discussion of the remaining major agenda item -- a review of the proposed five-year capital plan -- was continued at the full Board meeting.

After much discussion covering the interrelationship between operations and capital funds and need for a "worst case scenario," the Hospitals Board approved the proposed 1989-90 Capital Budget and the associated five-year Capital Plan. And I might say to you that this was an extremely modest plan. It hardly involves doing much more than repairs except in a couple of areas, and even then, frankly, I find it scary.

The Board also heard reports from Dr. John McDonald on the Hospitals' Pain Management Program, and from Dr. George Paulson on the Clinic Executive Committee's efforts toward improving patient services.

That completes my report, Mr. Chairman.

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## **INVESTMENTS COMMITTEE REPORT**

Mr. Kessler:

The Investments Committee reviewed the status of the Endowment Portfolio through July 21st as presented by Mr. Nichols. The value of the Endowment Portfolio was \$292.3 million.

Mr. Nichols also reported on the status of the endowed chairs and professorships. Ohio State currently has 36 endowed chairs, including the previously approved 8 Eminent Scholars, and 41 endowed professorships. Donations of \$1,250,000 are required to create an endowed chair and \$500,000 for a professorship. We have asked the staff to distribute to the full Board the list of all of the chairs and professorships, as well as a map that we had asked for before on the areas around the university in color which I think you will find very helpful.

That completes my report for the Investments Committee, Mr. Chairman.

(See Appendix VI for complete text of The Ohio State University Endowment Summary, July 21, 1989, page 217.)

(See Appendix VII for complete text of Status Report on The Ohio State University Endowment Funds and The Ohio State University Foundation Endowment Funds as of June 30, 1989, page 229.)

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**ACADEMIC AFFAIRS COMMITTEE**

Ms. Casto:

This morning the Academic Affairs Committee heard from the libraries and of course it was very interesting. I might recommend sometime that they present what they presented to us to the full Board. As you know, budgets have been very tight and I think that we have talked about our libraries being a priority here. I think that everyone should see these statistics. They are just too long and lengthy to name, so I think that you all might want to see the presentation.

The Academic Affairs Committee is recommending for approval the following resolutions:

**NAMING OF BUILDING**

Resolution No. 90-18

Synopsis: The Academic Affairs Committee recommended the approval for naming the bee laboratory, located on the Columbus Campus at 2501 Carmack Road, in honor of Professor Emeritus Walter C. Rothenbuhler

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus Campus at 2501 Carmack Road is currently described as the Bee Laboratory; and

WHEREAS during his twenty-one years at the University, Dr. Walter C. Rothenbuhler built a program in honey bee genetics at the University that earned him international recognition as one of the pioneers of behavioral genetics; and

WHEREAS Dr. Rothenbuhler is remembered for his ability to work with and motivate students, and his unbending standards of excellence; and

WHEREAS he has been instrumental in the replacement of the old bee laboratory with a new honey bee research facility, from the early planning stages in 1979 through the construction phases, even after his retirement in 1985; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned bee laboratory at 2501 Carmack Road be named in honor of Walter C. Rothenbuhler:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building at 2501 Carmack Road shall bear the name "Walter C. Rothenbuhler Honey Bee Research Laboratory."

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**NAMING OF BUILDING**

Resolution No. 90-19

**Synopsis:** The Academic Affairs Committee recommended the approval for naming the Water Resources Building, located on the Columbus Campus near 12th and Neil Avenues, the General Biology Annex.

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus Campus near 12th and Neil Avenues is currently described as the Water Resources Building; and

WHEREAS the faculty and graduate students of the Water Resources Center have relocated from the Water Resources Building to the Agricultural Engineering Building; and

WHEREAS General Biology classes presently located on West Campus will be relocated to Main Campus in the present Water Resources Building beginning Fall Quarter; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned Water Resources Building be named the General Biology Annex:

NOW THEREFORE

BE IT RESOLVED, That hereafter the building known as the Water Resources Building and located near 12th and Neil Avenues shall bear the name "General Biology Annex."

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**MORTAR BOARD RECOGNITION**

Resolution No. 90-20

**Synopsis:** The Academic Affairs Committee recommended the recognition of the 75th anniversary of Mortar Board.

WHEREAS Mortar Board is a national honor society of college seniors recognized for superior scholastic ability, outstanding and continual leadership, and dedicated service in support of the ideals of the University; and

WHEREAS 1989 marks the seventy-fifth anniversary of the founding of Mortar Board at The Ohio State University; and

WHEREAS Mortar Board at The Ohio State University was one of the four founding chapters of the national organization of Mortar Board; and

WHEREAS the National Council of Mortar Board, Inc., has established at The Ohio State University its national archives and its national office; and

August 23, 1989 meeting, Board of Trustees

### **MORTAR BOARD RECOGNITION (contd)**

WHEREAS The Ohio State University Mortar Board chapter will sponsor a seventy-fifth anniversary celebration on October 13 and 14, 1989:

NOW THEREFORE

BE IT RESOLVED, That The Ohio State University acknowledges the seventy-fifth anniversary of the founding of Mortar Board at The Ohio State University; and

BE IT FURTHER RESOLVED, That the Board of Trustees of The Ohio State University congratulates Mortar Board on its significant influence as a senior honor society on The Ohio State University campus over these seven and one-half decades, and encourages its continued pursuit of excellence through superior scholarship, distinguished leadership, and exemplary service for women and men.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **CHANGE "THE NEWTON D. BAKER - BAKER & HOSTETLER PROFESSORSHIP IN LAW" TO "THE NEWTON D. BAKER - BAKER & HOSTETLER CHAIR IN LAW"**

Resolution No. 90-21

Synopsis: The Academic Affairs Committee recommended changing "The Newton D. Baker - Baker & Hostetler Professorship in Law" to "The Newton D. Baker - Baker & Hostetler Chair in Law."

WHEREAS in accordance with the guidelines previously established by this Board, "The Newton D. Baker Memorial Fund" was established on February 1, 1974, with initial gifts from John D. Drinko of the law firm of Baker, Hostetler and Paterson, and several of his friends in memory of the firm's founder, Newton D. Baker; and

WHEREAS the name and description were changed to "The Newton D. Baker - Baker & Hostetler Professorship in Law" on February 7, 1986; and

WHEREAS all gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates; and

WHEREAS at the time of the establishment of the endowed fund it was agreed that the fund be redesignated The Newton D. Baker - Baker & Hostetler Chair in Law when the level of funding reaches \$750,000; and

WHEREAS the level of funding has now reached the level required through unexpended earnings on the original investment:

NOW THEREFORE

BE IT RESOLVED, That The Newton D. Baker - Baker & Hostetler Professorship in Law be changed to The Newton D. Baker - Baker & Hostetler Chair in Law. The annual income shall be used to support the Newton D. Baker - Baker & Hostetler Chair in Law. The chair is created to



August 23, 1989 meeting, Board of Trustees

**CHANGE "THE NEWTON D. BAKER - BAKER & HOSTETLER PROFESSORSHIP  
IN LAW" TO "THE NEWTON D. BAKER - BAKER & HOSTETLER CHAIR IN LAW (contd)**

recognize the work of a distinguished scholar and teacher in the College of Law. Appointment to the Newton D. Baker - Baker & Hostetler Chair in Law will be recommended to the Provost by the Dean of the College of Law for approval by the Board; and

BE IT FURTHER RESOLVED, That if at any time the annual income is greater than that necessary in the opinion of the Dean of the College of Law to support the chair, or if the chair should be vacant, the available income may, at the discretion of the Dean of the College of Law, be used to award a Newton D. Baker Award to one or more students in need of financial aid, or for one or more Newton D. Baker Summer Research Fellowships for faculty members of the College of Law; and

BE IT FURTHER RESOLVED, That should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official for the University who is then directly responsible for law education.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**PERSONNEL ACTIONS**

Resolution No. 90-22

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the July 7, 1989 meeting of the Board, including the following Change in Title, Appointment, Appointment of Chairpersons of Departments, Reappointment of Chairpersons of Departments and Director of Hospital, Leaves of Absence Without Salary, Leave of Absence Without Salary--Continuation, Professional Improvement Leave, Professional Improvement Leaves--Change in Dates, Emeritus Titles, and Promotion/Tenure, as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved July 27, 1989, by the Hospitals Board be ratified.

Change in Title

Name:	THOMAS L. SWEENEY
Title:	Acting Vice President for Research and Graduate Studies
Office:	Research and Graduate Studies
Effective:	September 1, 1989
Present Position:	Associate Vice President for Research and Graduate Studies

Appointment

Name:	KENNETH C. JEZEK
Title:	Director/Associate Professor
Center/Department:	Byrd Polar Research Center/Geology and Mineralogy
Effective:	December 1, 1989
Salary:	\$66,600.00

August 23, 1989 meeting, Board of Trustees

### **PERSONNEL ACTIONS (contd)**

#### Appointment (contd)

Present Position:      Geophysicist, U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, NH, Research Assistant Professor, Thayer School of Engineering, Dartmouth College, Hanover, NH

#### Appointment of Chairpersons of Departments

July 1, 1989 through June 30, 1990

Poultry Science

J. Fred Stephens\*

August 1, 1989 through June 30, 1990

Agricultural Education

R. Kirby Barrick, Jr.\*

October 1, 1989 through September 30, 1990

Black Studies

William T. McDaniel\*

#### Reappointment of Chairpersons of Departments and Director of Hospital

July 1, 1989 through June 30, 1990

Veterinary Hospital

John A. E. Hubbell

July 1, 1989 through June 30, 1993

Home Economics Education  
Textiles and Clothing

Sharon V. Redick  
Lucy R. Sibley

\*Acting Chairperson/Director

#### Leaves of Absence Without Salary

ABRAHAM J. NEYMAN, Professor, Department of Economics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a Visiting Professorship at Stoney Brook.

MORGAN E. SHIPMAN, Professor, College of Law, effective Autumn Semester 1989, to accept the Culverhouse Chair at Stetson University College of Law.

LAWRENCE R. BRAMLAGE, Associate Professor, Department of Veterinary Clinical Sciences, effective August 1, 1989, through July 31, 1990, for personal reasons.

GARY J. FERLAND, Associate Professor, Department of Astronomy, effective Winter Quarter 1990, for personal reasons.

RICHARD K. HERRMANN, Associate Professor, Department of Political Science, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to work on the Policy Planning Staff in the U.S. Department of State, Washington, DC.

August 23, 1989 meeting, Board of Trustees

### **PERSONNEL ACTIONS (contd)**

#### Leaves of Absence Without Salary (contd)

CHARLES E. WILSON, Associate Professor, College of Law, effective Autumn Semester 1989, to accept a visiting professorship at Brooklyn Law School.

DANIEL O. BOORD, Assistant Professor, Department of Photography and Cinema, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a visiting associate professorship at the School of Art and Design at the University of Illinois.

RUTH F. CAUTHEN, Assistant Professor, College of Dentistry--Restorative & Prosthetic, effective September 1, 1989, through October 31, 1989, for personal reasons.

TIMOTHY P. REDMAN, Assistant Professor, Department of English (Lima Campus), effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at The University of Texas at Dallas.

SHIBLEY Z. TELHAMI, Assistant Professor, Department of Political Science, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a fellowship from the Council on Foreign Relations.

#### Leave of Absence Without Salary--Continuation

POK-SANG LAM, Assistant Professor, Department of Economics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter, 1990, to continue as a Visiting Professor at Stanford University.

#### Professional Improvement Leave

VIVIAN B. HARVEY, Adjunct Instructor, Department of Family Relations and Human Development, effective July 1, 1989, through June 30, 1990, to study the Spanish language and the Mexican culture in Mexico.

#### Professional Improvement Leaves--Change in Dates

MARCIA P. MICELI, Associate Professor, Academic Faculty of Management and Human Resources, change leave from Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1989 and Winter Quarter 1990.

S. M. TARIQ RIZVI, Associate Professor, Department of Mathematics (Lima Campus), change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Winter Quarter, Spring Quarter, and Autumn Quarter 1990.

#### Emeritus Titles

JEROME ROTHSTEIN, Department of Computer and Information Science, with the title Professor Emeritus, effective July 1, 1989.

WILLIAM M. SUMNER, Department of Anthropology, with the title Professor Emeritus, effective July 1, 1989.

DAVID YASHON, Department of Surgery, with the title Professor Emeritus, effective January 1, 1989.

August 23, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### Emeritus Titles (contd)

BETTY C. HARRIS, Department of Family and Community, with the title Instructor Emeritus, effective July 1, 1989.

### Promotion/Tenure

## **COLLEGE OF MEDICINE CLINICALS**

### Promotion to Clinical Professor

A. James Giannini, Psychiatry, effective July 1, 1989

Upon motion of Ms. Casto, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## **RESOLUTIONS IN MEMORIAM**

Resolution No. 90-23

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Daniel Couri

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 3, 1989, of Daniel Couri, Professor in the Department of Pharmacology, College of Medicine.

Professor Couri was born on October 4, 1930, in Streator, Illinois. He received a Bachelor of Science degree in 1954 from Queens College, New York; a Master of Science in 1958 from New York University; and a Ph.D. from the State University of New York, Brooklyn in 1965. Dr. Couri was in the U.S. Military Service, Army Chemical Center from 1954 to 1956 and then served with Public Health Research between the years 1957 to 1960.

Dr. Couri joined the pharmacology faculty at The Ohio State University in 1965 and became Director of the Toxicology Laboratory in 1967. He remained as the Director of the Toxicology Division of Pharmacology serving as mentor for students until his death. During this time he had authored more than 160 journal publications and 12 chapters for various books under such topics as obstetrics, pharmacology and forensic toxicology. Dr. Couri also received numerous major research grants from the EPA and other state and federal organizations.

Dr. Couri was also Director of Forensic Toxicology at the Franklin County Coroner's office. He was selected by Dr. William R. Adrion to head toxicology work for the new county morgue that opened in 1977. For 12 years, he had directed the OSU laboratory that did contract toxicology work for the morgue.

August 23, 1989 meeting, Board of Trustees

## **RESOLUTIONS IN MEMORIAM (contd)**

Daniel Couri (contd)

He was active in many professional organizations within his field, including: the American Society for Pharmacology and Experimental Therapeutics; the International Association of Forensic Toxicologists; the Society of Toxicology and served as counselor and vice president of the Ohio Valley Chapter in 1983; and The Ohio Academy of Science. Dr. Couri served as a member of the American Industrial Hygiene Association's All Ohio Safety and Health Congress; the American Conference of Governmental Industrial Hygienists; the Society for the Scientific Detection of Crime; the American College of Toxicology; the American Academy of Forensic Sciences; and the International Union of Pharmacologist's Section on Toxicology.

Dr. Couri served as consultant to the Clinical and Forensic Toxicology Service of the Legal and Medical Professions and as a technical consultant to the State of Ohio Department of Mental Health and Prosecuting Attorney's Association. He was a member of the Toxicology Laboratory Accreditation Board, along with being a member of the Advisory Boards of the Ohio EPA Public Advisory Group, the City of Columbus Department of Health, and the Chemical Emergency Preparedness Advisory Council.

At The Ohio State University, Professor Couri also served on many committees including the Graduate Council; the Human Subjects Biomedical Research Committee; the University Senate; the Academic Misconduct Committee; the Faculty Compensation and Benefits Committee; the Biohazard Committee for Animal Science; and the departmental Promotion and Tenure committee. He also served as a faculty representative to The Ohio State University Research Foundation Board of Directors.

Despite his many accomplishments, Dr. Couri was most proud of his students. He was the advisor for 25 Ph.D. students who went on to research careers in academic, industrial, and government laboratories. He had a special knack for recruiting and inspiring students and researchers. He was honored by the pharmacology department and students for his outstanding contributions as a teacher and for his dedication.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Couri its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, his students, the University, and his many friends and associates have sustained.

Sara Ann Foster

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 1, 1989, of Sara Ann Foster, Assistant Professor in the College of Social Work.

A native of Greencastle, Indiana, Professor Foster received her B.A. degree from the University of New Mexico in 1948 and her Master of Arts in Social Administration degree from The Ohio State University in 1952. She also did post-graduate study at the University of Wisconsin from 1972-74. Professor Foster served as a research analyst for the High Allied Command in Frankfurt, Germany, in 1950-51. Following the completion of her master of social work degree, she was employed variously as a psychiatric social worker and researcher until 1956 when she became an instructor for the Department of Sociology at Ohio Wesleyan University. Professor Foster became an Assistant Professor at The Ohio State University College of Social Work in 1963, and served the college continuously since that time.

## RESOLUTIONS IN MEMORIAM (contd)

Sara Ann Foster (contd)

During her 26 years as a faculty member, Sara Ann Foster strove diligently to meet the needs of her students and to serve the best interests of the college and the University. Professor Foster taught social welfare policy courses, primarily to undergraduates, and health practice and policy courses to graduate students. She also pioneered courses on women's issues, and she was a very strong and active campaigner in the drive for equal opportunity and treatment for women. She published articles on social work field instruction and on gender related discrimination. In addition to her teaching and research, Professor Foster was deeply involved in the management of the operations of the college through her tireless work on college committees. In the community and in her profession Professor Foster was a member of the House of Delegates of the Council on Social Work Education; the Board of Directors of the Ohio Chapter of the National Association of Social Workers; the Ohio College Association of Social Service Educators; AAUP; and Ohio Women, Incorporated.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Nellie F. Jennings

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 11, 1989, of Nellie F. Jennings, Assistant Professor Emeritus in the University Libraries.

Professor Jennings was born February 3, 1903, in Delaware, Ohio (Delaware County). In 1924, she was awarded a Bachelor of Science in Education degree from The Ohio State University. In 1926, she earned a library certificate (an equivalent to a Master's degree) from Western Reserve University.

Professor Jennings was an Assistant School Librarian from 1926 to 1928, in Cleveland, and Young People's Librarian, 1928 to 1929, in the Cleveland Public Library, before beginning her tenure during the latter year with The Ohio State University Libraries as an Assistant in the Reference Department. Between 1930 and 1935 she worked at the Ohio Wesleyan University Library, followed by service in the State Library of Ohio, 1935 to 1945, as Head, Traveling Libraries and Head, Inter-Library Loan.

In 1947, she returned to The Ohio State University Libraries as Reference Department Assistant. She later served as Head, Serial Division, from 1954 to 1961, and as Senior Bibliographer, from 1961 until her retirement in 1973.

Professor Jennings always demonstrated an unsurpassed sense of professional duty and responsibility. She was long an active member of the Franklin County Library Association, the Ohio Library Association, and the American Association of University Professors. Professor Jennings served both willingly and ably on numerous local and state-level committees to advance library service. One notable legacy of her contribution to The Ohio State University Libraries was her work to structure a "Central Serial Record" file, from what had been thousands of scattered files recording serial publications received by the University Libraries system. Ohio State and its library system are richer for having had the benefit of many, many years of devoted, loyal service by Professor Jennings.

August 23, 1989 meeting, Board of Trustees

### **RESOLUTIONS IN MEMORIAM (contd)**

Nellie F. Jennings (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Professor Jennings its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and her many friends and associates have sustained.

Henry M. Moser

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on March 7, 1989, of Henry M. Moser, Professor Emeritus in the Department of Communication.

Professor Moser was born February 1, 1902, in Wapakoneta, Ohio (Auglaize County). Professor Moser received his B.A. degree in 1924 from The Ohio State University, M.A. degree from the University of Michigan in 1928, and his Ph.D. from the State University of Iowa in 1936.

Professor Moser taught graduate studies at both the University of Michigan and The Ohio State University, from which he retired in 1968. While at Ohio State, Professor Moser served as director of the Speech and Hearing Clinic while also acting as a communication consultant to the U.S. Air Force. During the Korean War, he developed the ICAO phonetic alphabet still utilized by the U.S. Military, NATO, as well as the civilian aviation community. During World War II he served as director of Training of Voice Communication for the Army Air Corps. Professor Moser was credited with the development of the diagnostic testing procedure which allows laryngectomy patients to speak.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Moser its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Helen L. Wallace

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 9, 1989, of Helen L. Wallace, Assistant Professor Emeritus in the Department of Life Span Process.

Ms. Wallace was born in Cambridge, Ohio, on May 12, 1924. She received her diploma from the Newark Hospital School of Nursing in October 1945, a B.S. in Education (Summa Cum Laude) from The Ohio State University in March 1953, and also her M.S. in Nursing from Ohio State in June 1959.

Ms. Wallace was affiliated both with The Ohio State University Hospitals and the School/College of Nursing from 1953 until 1988 when she retired with the title of Assistant Professor Emeritus. She began as a staff nurse, Medical Unit, The Ohio State University Hospitals in 1953. Prior to her retirement, she served as the Director of Operating Room Nursing from 1973 until 1980, and was the Coordinator of Nursing Quality Assurance from 1980 until 1988 in The Ohio State University Hospitals. Ms. Wallace was appointed Instructor of Surgical Nursing, School of Nursing from 1953 until 1959, and served as Assistant Professor, School of Nursing from 1959

August 23, 1989 meeting, Board of Trustees

## **RESOLUTIONS IN MEMORIAM (contd)**

Helen L. Wallace (contd)

until 1972. Ms. Wallace's affiliation with the School/College of Nursing continued on in the capacity of Adjunct Assistant Professor until her retirement in June 1988. Ms. Wallace also served as a Clinical Professor in the School of Allied Medicine from 1979 until 1983.

In her thirty-five years of service to The Ohio State University, Ms. Helen Wallace conducted herself in a professional and in a very humane and caring manner. The College of Nursing pays tribute to Ms. Wallace's sustained contribution to teaching and service at the University and to her dedication and commitment to the advancement of the nursing profession.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Wallace its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Lowell Ashley Wrigley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 27, 1989, of Lowell Ashley Wrigley, Assistant Dean Emeritus in the Office of Student Affairs.

Born December 4, 1910, in Lima, Ohio, Mr. Wrigley graduated from Lima Central High School where he was captain of the football team. He received his Bachelor of Science in Education degree from The Ohio State University in 1932. As a scholar-athlete he earned three varsity letters each in both baseball and basketball, was elected treasurer of the sophomore class and to membership in the honor societies Bucket and Dipper and Sphinx. He was a member of the Tau Kappa Epsilon Fraternity.

Mr. Wrigley began his professional career as a teacher of mathematics and science at Johnsville High School where he also coached basketball. From there he moved to Celina High School to continue teaching and to coach basketball.

His long and effective service to The Ohio State University began in June 1937, when he was appointed to the Dean of Men's staff and served as the first director of Baker Hall, which opened in 1939. As an effective member of the men's residence hall staff during the time of unprecedented growth in residence halls; he earned the respect and admiration of his colleagues and students. He served as faculty adviser to numerous student organizations including Ohio Staters, Inc., the senior honor society Sphinx, and the national honor society Phi Eta Sigma. He also served as coach of The Ohio State University baseball team in 1945-46 and later as an assistant coach with coaches Floyd Stahl and Marty Karow.

Mr. Wrigley served as a Big Ten football official for 17 years. He officiated the 1963 Rose Bowl Game and the 1970 Cotton Bowl Game. The Ohio Association of Football Officials honored him with life membership and he served as the secretary/treasurer of the association for many years. He was elected President of the Central Ohio Football Officials Association in 1966. Lowell Wrigley earned the respect and confidence of his peers for his inspirational leadership, his sharp and fair decision-making ability, and his complete integrity. Upon his retirement on July 31, 1973, he was named Assistant Dean Emeritus.



August 23, 1989 meeting, Board of Trustees

### **RESOLUTIONS IN MEMORIAM (contd)**

Lowell Ashley Wrigley (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Mr. Lowell Wrigley its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **STUDENT AFFAIRS COMMITTEE REPORT**

Mr. Shumate:

The Board will receive three presentations this morning from student government leaders. The first report, I believe, will be presented by Mr. Steve Sloan on behalf of the Interprofessional Council.

Mr. Steve Sloan:

Thanks a lot. I'm impressed you got my name. Steve Diebert actually could have made it today, but I told him since I was entering my third year of medical school and I would probably not be able to make too many more meetings that I would just go ahead and give my last report. But Steve is looking forward to speaking to you at the next meeting.

I want to welcome Alex Shumate to the Board of Trustees. If my last name sounds familiar to you, it's because my twin brother worked for Squire, Sanders & Dempsey during the summer. I think you can tell us apart fairly easily -- I don't wear a suit, my brother does; my brother is in law school, I'm in medical school. So, I think it is pretty easy to keep us apart.

Last year we spoke a lot about the organizational structure of the IPC and how we were really just trying to strengthen that. I think we pretty much have worn that topic pretty thin. This year we plan to be productive and actually get some things done.

We plan to take advantage of some of the things that we have built up -- our organization, our office, and things like that. We also plan to work with the other student governments, the Undergraduate Government and the Graduate Student Government -- they have a lot of expertise and experience that we may lack. Also, we are looking forward to working with the Board of Trustees and the administration.

That concludes my report and thank you very much.

Mr. Shumate:

Are there any questions? Thank you. Our next report will be given by Luke Evans from the Council of Graduate Students.

August 23, 1989 meeting, Board of Trustees

### **STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Luke Evans:

Good morning. Chairman Berry, President Jennings, members of the Board, we are looking forward to this coming year and working with you and the rest of the University. We have some pretty exciting things on the slate for the coming year. Our activities for this summer have been quite busy.

First of all, we have been selected as the site for the National Membership Coordinator position with the NAGS organization. That is a board member position. So we think this would be very good for highlighting Ohio State nationwide. We will be making a lot of efforts to recruit members to NAGS. Since we will be working with present members as well as potential members, we think this is probably the most visible position on the board of directors.

On the local scene, we have completed our interviews for all of our university-wide committees. We have some excellent people selected and as a result we think that we will be able to make a positive contribution to the activities of this university.

Benetta Lucius, our Vice President, has been working very diligently on our orientation and reception for graduate students on Monday, September 18. We value this highly because it is very important to us that 2,900 new graduate students entering this University get off to a good start. We will be orienting them as far as to where the libraries are, basic things like that. We will also have panel discussions with successful graduate students who will give them some words of advice on how to proceed successfully through the program. In the evening we will be holding a reception, the second annual reception. The purpose of this is to promote the social side of Graduate School. We do want new graduate students get to know the senior graduate students, as well as key graduate faculty and administrators here at Ohio State. So we think that we will be getting everyone off to a good start there. At this reception we will have a jazz band, food refreshments and door prizes. So we think that these carrots will help encourage -- if there is any shyness on the part of the new students -- we hope that will bring them out.

And, finally, a little bit on the lighter side, we managed to double our office space this summer. That is something that is hard to do on this campus. We had four people working in a room 14 x 13 feet, we now have 14 x 26 feet. This was a win, win, win situation. All parties involved managed to come out ahead. This makes it even more rare. But this is the way we would like to work with the University throughout the year. We do not want to advocate our position at the expense of other significant groups at the University. Thank you.

Mr. Shumate:

Are there any questions? Thank you, Mr. Evans. Our final report will come from David Straub representing the Undergraduate Student Government.

Mr. David Straub:

Good afternoon. Members of the Board of Trustees, President Jennings, good afternoon. Today, my presentation is unique -- I think I try to make them unique all of the time -- I know that you are in meetings all day.

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Straub: (contd)

First and foremost, I would like to introduce somebody that has been working very diligently this summer in the Undergraduate Student Government. He is the chair of our Assembly for this upcoming year, his name is Mike Arnott. He is back there, will you please stand, Mike. He has been working very hard this year to represent the students of the University.

On to some of the things that we have been doing this summer. We just attended a conference -- the U.S.S.A. Conference out in Berkeley, California. United States Student Association is a national lobbying organization for students. We were out there and I would say highly visible and active and debating some of the issues that will be lobbied at the national level for students. We made a lot of connections and a lot of friends out there and have networked to some of the campuses that we will be working with in the upcoming year.

This brings me to another point, in the beginning of September we will be working with the Big 10 Conference that will be held out in Iowa City. The ten universities will be represented and a platform will be developed from the student governments of those universities. We are excited about that and we are looking forward to attending.

I'd like to ask, Laurel, if you could help me out with a little presentation that I have to make. If you could help me string this out. It is regarding student organizations. What I want to do is show it to you -- the student organizations on this campus and will give you a little feel for this. If you want to walk back there. This is not rehearsed by the way.

Ms. Davis:

No, it's not.

Mr. Straub:

The point is that these are all of the address labels for the registered student organizations. This goes on for a ways. This is to prove a little point. The student organizations on this campus number over 500. And if you would like to write to them, I am sure their labels are there. There are many things that students gain from being a member of those student organizations. They develop leadership skills so they can become active leaders in the community upon graduation. They enhance their education through practical experience in dealing with students and administrators. They make the campus more cohesive. These different organizations represent things from astronomy club to zoology, and on down. It is very important that these organizations are active at this University. One of my thoughts and one of the things that we just heard about Wednesday, is that approximately \$2,000 will be cut from the funds of these organizations. And that is a major concern of mine and to all of those students involved in those student organizations. I think that the University should look at those organizations as a higher priority than they have in the past.

### **STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub: (contd)

There are student organizations around the country that receive more money as an individual student government than all of our student organizations and student governments receive combined. That is an important point to take note of, because those developed leadership skills can then add to the University in the future in other ways such as endowing a chair possibly. Those are things that we would like to look at. We would like the University to reconsider the funding process for the students organizations. That is basically my point and I think it is pretty self-explanatory.

One of the other things that is of concern to me is the vision of the University, I guess, and the representation of students on committees and on Senate. And I can just explain to you when a student comes to sit down before tenured faculty members in a committee, to say the least, it may be intimidating for them. President Jennings has expressed the fact that he likes to have two students appointed so they can stay together and represent the views of the students. But I would like to go one step further, and have more students represented on those university committees and in the Senate. I know that I am asking for a lot, but I think that this campus is a student campus, at least in my view, and that we should represent those students' views as strongly as possible.

That concludes my report. One last note, published teacher evaluations are a major concern of students and we are continuing this struggle to have those published to provide more information for students. Thank you, and have a good afternoon. Any questions?

Mr. Berry:

I would like to ask a question. You said that there are over 500 various student groups at the present time. Are all of these ongoing groups or are some of them started and then dropped?

Mr. Straub:

Let me clarify some of those student organizations, because it is somewhat complicated. There are some organizations that continue to be strong on campus year in and year out and some come and go. A lot of student organizations, I would say the majority, don't apply for funding through the University, and that is another issue in itself -- the funding procedure for those organizations. I don't have a number for you specifically as to how many have been around for how many years, but there are a good number that are active in University activities.

Mr. Berry:

You mentioned the astronomy organization -- that would be limited to the people, I presume, that are interested in that. Would they have any formal goals that they are working towards?

August 23, 1989 meeting, Board of Trustees

### **STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub:

I don't know exactly what that particular club's objective would be, but every club has a special interest. It is not the point of whether we agree with their views or not, because there are some political organizations. And those political organizations cannot be funded, but the other organizations that may have special interests at heart are a viable part in the whole process of University activities. In my opinion their views, although they may disagree with mine, are important just the same.

President Jennings:

You might point out, David, for each one of these student organizations one of the requirements to be recognized is that there has to be an advisor. Something like the astronomy club would have a faculty advisor and this would be typically students interested in astronomy, but not majoring in astronomy. It might include some majors, but the student organizations of that character typically have students who are interested in the field but not majoring necessarily in that particular activity. We were talking about Mortar Board -- Mortar Board would fit under the same rubric. The fraternities and sororities would fit under the same rubric. The Young Republicans and the Young Democrats would fit under the same rubric. It is the whole diversity of the student body that is to be represented. The funding is always difficult. I would mention that whenever university funding for student services is compared, it is always extraordinarily difficult because it depends on the accounting technique. Where ours is put through the normal budgets of student services in the various collegiate units, there are student government organizations who are responsible for the entire student services funding. For example, the University of Iowa shows up with a student government having about \$3 million of student organization funding. We would show up with much more than that, except our accounting process would not put that money into student government, it would put it under Russ's budget.

I might add that David looks to me, Jack, like a marvelous young marketing major. He has learned his job well. If you would note, looking at those labels, every other one is blank.

Mr. Straub:

No, that's my family's addresses.

Mr. Berry:

I might take this opportunity to make one slight correction. Normally, under past chairmen, it would be afternoon when you report this, but since I run a very tight ship it is still morning.

Mr. Shumate:

Any other questions? Thank you, David. Mr. Chairman, I might suggest that we may have a trial lawyer in the making, because I saw that as demonstrative evidence.

August 23, 1989 meeting, Board of Trustees

### **STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub:

I watch too many movies.

Mr. Shumate:

That completes my report, Mr. Chairman.

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### **AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mrs. Bowser:

This morning we had a report from OARDC on their plan to reduce expenditures and to balance the annual operating budget by the end of this year, and also to eliminate a negative cash balance by 1993. It is a very well thought out plan. They have touched all the important bases. It is an example of downsizing in this University. It can be painful, but this has been done very thoroughly and with great feeling, I think, for those concerned.

I would like to introduce Dr. Kirklyn Kerr, who is with us this morning, who is the head of OARDC; and Dr. Warmbrod, who is back there, too. He is the Acting Vice President for Agriculture.

Since there were five Trustees in our Board meeting this morning, which is the majority, if there are any questions we certainly have the expertise in the room to answer them. It is sort of what all of agriculture is facing and that is that they were carrying a debt and they decided to meet it square on and to take the appropriate action. The program will certainly level off and go forward with great speed and zeal, I think. That completes my report.

Mr. Berry:

I might add that on that Committee there were two very competent Trustees in attendance, because you had two farmers in attendance.

Mrs. Bowser:

Some of us make our living farming --

Mr. Kessler:

Who was the second?

Mr. Berry:

If you don't know the second, I'm not going to tell you.

(See Appendix VIII for complete text of the College of Agriculture Report on OARDC, August 23, 1989, page 237.)

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August 23, 1989 meeting, Board of Trustees

## **FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Kessler:

The Fiscal Affairs Committee began by hearing a report on the University debt. Mr. Nichols provided a summary of the outstanding debt and savings resulted from the use of variable rate debt, reviewed improvements to the debt management process, and listed the projects being considered for a coming debt issue. Staff is currently reviewing proposals from investment banking firms interested in being the bond underwriters.

(See Appendix IX for the complete chart on The Ohio State University Plant Indebtedness as of June 30, 1989, page 239.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

### **WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS APRIL - JUNE 1989**

Resolution No. 90-24

Synopsis: The Fiscal Affairs Committee recommended acceptance of the quarterly report on waivers of competitive bidding requirements.

WHEREAS the Purchasing Policy of The Ohio State University, adopted by the Board of Trustees on September 7, 1984, provides that the President and/or the Vice President for Business and Administration may grant a waiver from competitive bidding in the event of an emergency, when a sufficient economic reason exists, or when the goods or services can be purchased from only a single source, with a report on such waivers to be made quarterly to this Board; and

WHEREAS the Vice President for Business and Administration has submitted a report on waivers of competitive bidding requirements granted for the period of April-June 1989, and the Fiscal Affairs Committee recommends the acceptance of this report:

NOW THEREFORE

BE IT RESOLVED, That the report on waivers of competitive bidding requirements for the period of April-June 1989, is hereby accepted.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 90-25

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summaries for June and July 1989.

August 23, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the months of June and July 1989 be approved.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

**SUMMARY FOR JUNE 1989**

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	157	\$9,304,065.94
Engineering Experiment Station	55	\$ 455,289.00
Total	212	\$9,759,354.94

**The Ohio State University Development Fund**

**Establishment of Named Funds**

Ohio Eminent Scholar in High-Temperature Structural Materials (Provide salary and program support for an outstanding scholar-leader in high-temperature structural materials)	\$ 500,000.00 (Designated by General Assembly of Ohio) \$ 500,000.00 (University Funds)
Ohio Eminent Scholar in Macromolecular Structure Determination (Provide salary and program support for an outstanding scholar-leader in macromolecular structure determination)	\$ 500,000.00 (Designated by General Assembly of Ohio) \$ 500,000.00 (University Funds)



August 23, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR JUNE 1989 (contd)**

Background (contd)

The Ohio State University Development Fund (contd)

Establishment of Named Funds (contd)

Ohio Eminent Scholar in Protein Engineering (Provide salary and program support for an outstanding scholar-leader in protein engineering)	\$ 500,000.00 (Designated by General Assembly of Ohio) \$ 500,000.00 (University Funds)
Ford Motor Company - EEOC Scholarship for Minorities and Women (Scholarships)	\$ 200,000.00
The Campbell Hall Building Fund (Cover building-related costs)	\$ 50,000.00
The Henry County 4-H Endowment Fund (Scholarship and the Henry County 4-H program)	\$ 29,000.00
The Sam Cashman Family 4-H Endowment Fund (Support development of innovative ways to expand 4-H membership)	\$ 25,090.00
75th Anniversary Scholarship Fund (Nursing scholarships)	\$ 19,000.00
The S. Maurice Bostic and Birch S. M. Bostic Memorial Award Fund (Awards - College of Business)	\$ 17,633.60
The Robert A. Barnes Award for Exemplary Teaching (Award for exemplary teaching - Newark Campus)	\$ 15,000.00

August 23, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR JULY 1989**

**Background**

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	143	\$13,444,058.27
Engineering Experiment Station	35	\$ 82,500.00
Total	178	\$13,526,558.27

**The Ohio State University Development Fund**

**Establishment of Named Funds**

The Paul and Lucy Dale Kent Cancer Research Endowment Fund (Support cancer research)	\$ 15,000.00
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The Marshall McDonald Scholarship Fund (Scholarships to students in Beekeeping Technology at ATI)	\$ 15,000.00
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The Floyd B. Mellor Scholarship Fund (Scholarships to graduate associates in beef cattle research at OARDC)	\$ 15,000.00
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The John Weller Wuichet, Jr., and Norma Johns Wuichet Endowment Fund (Assist selected departments or divisions in the College of The Arts in recruiting and retaining outstanding students)	\$ 15,000.00
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The Chhotey Lal and Mohra Devi Rustagi Memorial Lectureship Fund (Honoraria and expenses incurred by visiting lecturer(s) to the Department of Statistics)	\$ 5,000.00
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**Change in Name and Description of Named Fund**

From: The Hospitality Management Research Fund  
To: Bob Evans Farms Inc., Hospitality Research Fund

**Change in Description of Named Funds**

Arthur E. Baggs Memorial Fund  
The Baker & Hostetler Law Library and Building Fund  
The H. P. Wolfe Chair in Accounting Fund

**The Ohio State University Foundation**

**Approval of Description and Establishment of Professorship**

The Robert K. Fox Professorship in Chemistry Fund

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

Report - June 1989

#### **Federal Research Contracts/Grants**

\$280,450.00 - Department of Education, Office of Elementary and Secondary Education, Washington, D.C., Training and Demonstration Grants to Institutions of Higher Education, Department of Educational Theory and Practice (J. J. Quaranta), 1 October 1989 through 30 September 1991. (Project 767590 - New)

\$272,947.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Modification of Diet in Renal Disease (MDRD) Study, Department of Internal Medicine (L. A. Hebert), 1 June 1989 through 28 February 1990. (Project 766873 - Continuation)

\$227,365.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Human Leucocyte Fragment Crystallizable Receptor Structure and Function, Department of Internal Medicine (C. L. Anderson), 1 July 1989 through 30 June 1990. (Project 765701 - Continuation)

\$200,000.00 - National Aeronautics and Space Administration, Washington, D.C., Hypersonic Training and Research, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 1 June 1989 through 31 May 1990. (Project 765979 - Continuation)

\$197,850.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Title III -- Development and Improvement of Academic Programs, Agricultural Technical Institute - Administrative Support (D. D. Garrison and L. J. Clevenger), 1 October 1989 through 30 September 1990. (Project 766437 - Continuation)

\$175,641.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preteaching Strategy Research, Education Administration and Department of Education Services and Research (L. Magliocca), 1 October 1989 through 30 September 1990. (Project 767101 - Continuation)

\$171,006.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., National Resource Center -- East Asia, Office of International Affairs (C. M. Chen), 15 August 1989 through 14 August 1990. (Project 766979 - Continuation)

\$145,966.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Functional Domains of the HSV-1 65K DNA Binding Protein, Department of Microbiology and Immunology (D. S. Parris), 1 July 1989 through 30 June 1990. (Project 765482 - Continuation)

\$140,883.50 - Department of Health and Human Services, Centers for Disease Control, Atlanta, Georgia, Study to Evaluate the Impact Strategies to Improve Prevention Behaviors and Reduce the Risk for Lower Extremity Amputation in Persons with Diabetes Mellitus, Department of Internal Medicine (S. Cataland), 30 September 1989 through 29 September 1990. (Project 767120 - Continuation)

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

**\$134,911.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Pharmacodynamics of Agents for Bladder Cancer Intravesical Therapy, College of Pharmacy (J. L. S. Au) and Department of Surgery (M. G. Wientjes), 1 June 1989 through 31 May 1990. (Project 767508 - New)

**\$131,216.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Acute Phase Reactants: Induction and Host Resistance, Department of Microbiology (R. F. Mortensen), 1 July 1989 through 30 June 1990. (Project 762354 - Continuation)

**\$130,463.00** - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Genetics of Myogenesis: Structure and Function, Department of Molecular Genetics (S. Falkenthal), 1 June 1989 through 31 May 1990. (Project 763993 - Continuation)

**\$119,144.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 761160 - Continuation)

**\$115,237.00** - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Developmental Plasticity of Descending Spinal Pathways, Department of Anatomy (G. F. Martin, Jr.), 1 July 1989 through 30 June 1990. (Project 766115 - Continuation)

**\$112,000.00** - Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Program, 1989 - 1990 (Graduate and Professional Study Fellowships), Graduate School Administration (J. D. Dickerscheid), 1 October 1989 through 30 September 1990. (Project 767593 - Continuation)

**\$110,358.00** - Department of Health and Human Services, National Institute of Environmental Health Science, Research Triangle Park, North Carolina, Biochemical Studies of Arsenite Oxidase and Sulfite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 July 1989 through 30 June 1990. (Project 766908 - Continuation)

**\$105,130.00** - Department of the Interior, Geological Survey, Reston, Virginia, FY 1989 Ohio Water Research Institute Program, Department of Civil Engineering and Engineering Experiment Station (R. C. Stiefel), Department of Chemical Engineering (L. S. Fan), Department of Agronomy (G. K. Sims and S. J. Traina), and Department of Agricultural Engineering (A. Ward), 1 July 1989 through 30 June 1990. (Project 766766 - Continuation)

**\$104,046.00** - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Preservice Training for Ohio School Psychologists to Provide Related Services Promoting Placement in the Least Restrictive Environment for Students Who are Severely Handicapped, Education Administration (K. D. Arnold), 1 June 1989 through 31 May 1990. (Project 766059 - Continuation)

**\$99,261.00** - National Science Foundation, Washington, D.C., Ice Sheet Dynamics in Central Greenland, Byrd Polar Research Center (J. Bolzan), 15 April 1989 through 31 March 1990. (Project 767423 - New)

August 23, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$97,400.00 - National Science Foundation, Washington, D.C., Radiative and Collisional Atomic Data for Singly Ionized Iron, Department of Astronomy (A. K. Pradhan), 1 July 1989 through 31 July 1990. (Project 767507 - New)

\$90,989.00 - Department of Health and Human Services, National Institute on Aging, Bethesda, Maryland, Age-Related Changes in the Perception of Speech, Division of Speech and Hearing Science (R. A. Fox), 1 July 1989 through 30 June 1990. (Project 767540 - New)

\$89,123.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Application of Low Temperature Chemistry and Kinetics to Photoaffinity Labeling, Department of Chemistry (M. S. Platz), 1 July 1989 through 30 June 1990. (Project 765496 - Continuation)

\$84,493.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Aberrant Papovavirus Replication After Genotoxic Damage, Department of Radiology (R. M. Snapka), 1 June 1989 through 31 May 1990. (Project 766206 - Continuation)

\$83,500.00 - Department of Energy, Argonne, Illinois, Structure and Regulation of Methanogen Genes, Department of Microbiology (J. N. Reeve), 1 July 1989 through 30 June 1990. (Project 766060 - Continuation)

\$82,998.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Enroute Flight Path Planning: Cooperative Performance of Flight Crews and Knowledge-Based Systems, Department of Industrial and Systems Engineering (P. J. Smith), 1 July 1989 through 30 June 1990. (Project 767591 - New)

\$77,188.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Training School Speech/Language Pathologists in an Educationally-Based Model, Education Administration (T. M. Stephens) 1 September 1989 through 31 July 1990. (Project 766389 - Continuation)

\$75,828.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Professional Nurse Traineeship Program, Department of Family and Community Nursing (E. M. Menke), 1 July 1989 through 30 June 1990. (Project 760803 - Continuation)

\$74,704.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Development and Implementation of a Ph.D. Program in Special Education with an Emphasis in Applied Behavior Analysis, Department of Education Services and Research (W. L. Heward), 1 October 1989 through 30 September 1990. (Project 766390 - Continuation)

\$72,455.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Role of Polyamines in Calmodulin and C-Kinase Regulation, Periodontology (J. D. Walters), 1 July 1989 through 30 June 1990. (Project 765508 - Continuation)

August 23, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

**\$70,602.00** - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, A Study of Ionic Channels in Rat Pituitary Somatotrophs, Department of Pharmacology (J. J. Enyeart), 1 May 1989 through 30 April 1990. (Project 766691 - Continuation)

**\$67,074.00** - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Project LRE/PE, School of Health, Physical Education, and Recreation (P. Jansma), 1 July 1989 through 30 June 1990. (Project 765970 - Continuation)

**\$66,498.00** - National Science Foundation, Washington, D.C., Distributions of Input-Output Coefficient and Probabilistic Input-Output Models, Department of Geography (R. W. Jackson), 1 July 1989 through 30 June 1990. (Project 767525 - New)

**\$65,296.00** - National Science Foundation, Washington, D.C., Workstation for Flow Visualization, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 June 1989 through 31 May 1990. (Project 767515 - New)

**\$63,500.00** - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Developing a Prototype System for Intelligent Information Retrieval, Department of Industrial and Systems Engineering (P. J. Smith), Department of Pathology (J. W. Smith), and Health Sciences Library (E. J. Sawyers), 1 October 1989 through 30 September 1990. (Project 767559 - New)

**\$60,000.00** - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Reading Recovery Project 1987-1991, Department of Educational Theory and Practice (C. A. Lyons, G. S. Pinnell, and D. Deford), 1 October 1989 through 30 September 1990. (Project 766402 - Continuation)

**\$58,965.00** - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Regulation of Metamorphosis Behavior in the Tsetse Fly, Department of Entomology (D. L. Denlinger), 1 June 1989 through 31 May 1990. (Project 767561 - New)

**\$54,968.00** - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Surface Wave Interaction with Porous Saturated Rocks, Department of Welding Engineering (L. Adler), 1 July 1989 through 30 June 1990. (Project 766168 - Continuation)

**\$53,550.00** - National Science Foundation, Washington, D.C., Extensions of the Graph-Minor Project, Department of Mathematics (G. N. Robertson), 15 June 1989 through 31 May 1990. (Project 767504 - New)

**\$51,459.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Mediastinal Effects on Pulmonary Function, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 June 1989 through 31 May 1990. (Project 766765 - Continuation)

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$50,903.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1989 through 30 June 1990. (Project 764653 - Continuation)

\$49,148.00 - National Science Foundation, Washington, D.C., Field Theoretic Models of Nuclear and Subnuclear Systems, Department of Physics (R. J. Perry), 1 September 1989 through 31 August 1990. (Project 766657 - Continuation)

\$45,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Robust Estimation of Regional Deformations and Relative Plate Motions from Robust Estimation, Department of Geodetic Science and Surveying (I. I. Mueller), 1 July 1989 through 31 July 1990. (Project 761054 - Continuation)

\$43,277.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Small Instrumentation Program, Research and Graduate Studies Administration (T. L. Sweeney), 19 June 1989 through 31 May 1990. (Project 767571 - Continuation)

\$42,243.00 - Department of Health and Human Services, Bureau of Health Professions, Rockville, Maryland, Graduate Program in Hospital and Health Services Administration, Hospital and Health Services Administration (S. F. Loeb), 1 October 1989 through 30 September 1990. (Project 761329 - Continuation)

\$41,641.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Foreign Language and Area Studies Fellowships in Slavic and East European Studies, Office of International Affairs (J. P. Scanlan), 15 August 1989 through 14 August 1990. (Project 767007 - Continuation)

\$41,000.00 - Department of the Interior, Fish and Wildlife Service, Anchorage, Alaska, Remote Sensing Techniques for Counting Brant in Nesting and Staging Areas, Center for Mapping (J. D. Bossler and W. H. Anderson), 15 May 1989 through 1 February 1990. (Project 767595 - New)

\$40,751.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Multiple Comparisons with the Best Treatment, Department of Statistics (J. C. Hsu), 1 June 1989 through 31 May 1990. (Project 765581 - Continuation)

\$39,988.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Radar Cross Section Computation of Arbitrarily Shaped Cavities, ElectroScience Laboratory, Department of Electrical Engineering (R. C. Chou), 21 June 1988 through 20 June 1990. (Project 766823 - Continuation)

\$39,895.00 - Department of the Navy, Naval Material Command, China Lake, California, Ram and Inlet Modeling: Compact Range Scattering, ElectroScience Laboratory, Department of Electrical Engineering (P. Pathak, W. D. Burnside, and R. J. Marhefka), 1 July 1989 through 29 December 1989. (Project 764991 - Continuation)

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$29,100.00 - National Science Foundation, Washington, D.C., Topics in the Foundations of Mathematics, Department of Mathematics (H. Friedman), 1 June 1989 through 31 May 1990. (Project 767495 - New)

\$25,917.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Research Training Program in Psychoneuroimmunology, Department of Microbiology and Immunology (M. R. Glaser), 1 July 1989 through 30 June 1990. (Project 766200 - Continuation)

\$25,000.00 - Department of the Army, Army Corps of Engineers, Champaign, Illinois, Perform a Functional and Structural Review of the Geographic Resources Analysis Support System (GRASS), Center for Mapping (J. D. Bossler), 1 June 1989 through 31 January 1990. (Project 766475 - Continuation)

\$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Mathematics (K. Rubin), 1 February 1990 through 31 January 1991. (Project 766905 - Continuation)

\$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Computer and Information Science (K. J. Supowit), 1 September 1989 through 28 February 1991. (Project 766850 - Continuation)

\$24,999.00 - Department of the Army, Army Materiel Command, Aberdeen Proving Ground, Maryland, Medetomidine Analogs as Alpha Adrenergic Agonists, College of Pharmacy (D. D. Miller), 1 June 1989 through 31 May 1990. (Project 767531 - New)

\$23,750.00 - National Science Foundation, Washington, D.C., Development and Applications of Periodic Soliton Theory for Nearly Integrable Partial Differential Equations, Department of Mathematics (G. Forest), 1 December 1989 through 30 November 1990. (Project 766786 - Continuation)

\$23,600.00 - National Science Foundation, Washington, D.C., L-Functions with Applications to the Oscillator Representation, Department of Mathematics (S. Rallis), 1 December 1989 through 30 November 1990. (Project 766771 - Continuation)

\$22,150.00 - National Science Foundation, Washington, D.C., Simulation and Field Measurement of Aspects of the Urban Canopy Layer Climate and Energy Budget, Department of Geography (A. J. Arnfield), 16 March 1988 through 31 May 1990. (Project 766530 - Continuation)

\$21,584.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Determination of Residual Stress and Effects in Thick Section Weldments for Hydraulic Structures, Department of Welding Engineering (C. L. Tsai), 12 December 1988 through 11 December 1989. (Project 767229 - Continuation)

\$20,726.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Application of Borehole Geophysics to Locating Tunnels, Department of Geology and Mineralogy (J. J. Daniels), 1 April 1989 through 30 September 1989. (Project 766708 - Continuation)



August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$20,000.00 - National Science Foundation, Washington, D.C., Development of High Deformation Rate Experiment at Elevated Temperatures, Department of Engineering Mechanics (A. Gilat), 1 June 1989 through 31 May 1990. (Project 767516 - New)

\$18,674.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Packet Radio Networks, Department of Electrical Engineering (R. L. Hamilton), 8 June 1989 through 8 September 1989. (Project 767502 - New)

\$18,095.00 - National Science Foundation, Washington, D.C., Computational Studies of Vortex Flow, Department of Mathematics (G. R. Baker), 16 June 1988 through 31 December 1989. (Project 766749 - Continuation)

\$15,000.00 - National Aeronautics and Space Administration, Washington, D.C., SETI Research, Department of Electrical Engineering (J. D. Kraus and R. S. Dixon), 1 April 1989 through 31 March 1990. (Project 764694 - Continuation)

\$12,000.00 - National Science Foundation, Washington, D.C., Algebraic Combinatorics of Hyperplane Arrangements, Department of Mathematics (L. Rose and J. C. Ferrar), 1 June 1989 through 31 May 1990. (Project 767506 - New)

\$12,000.00 - National Science Foundation, Washington, D.C., Productive Versus Non-Productive Binding Kinases, Department of Chemistry (M. D. Tsai), 1 September 1988 through 28 February 1990. (Project 765630 - Continuation)

\$9,950.00 - Department of Labor, Employment and Training Administration, Washington, D.C., Accreditation Process for Apprenticeships, Center on Education and Training for Employment (R. D. Ryan), 1 May 1989 through 31 July 1989. (Project 767497 - New)

\$9,454.00 - Department of Health and Human Services, Bureau of Health Professions, Rockville, Maryland, Traineeships for Students in Graduate Health Administration, Hospital and Health Services Administration (S. F. Loebs), 1 July 1989 through 30 June 1990. (Project 767532 - New)

\$9,309.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Small Instrumentation Program, College of Pharmacy (R. W. Brueggemeier), 1 June 1989 through 31 May 1990. (Project 767522 - New)

\$4,000.00 - National Science Foundation, Washington, D.C., Structure and Dynamic Behavior of Selected Organolithium Compounds, Department of Chemistry (G. A. Fraenkel), 1 January 1989 through 31 December 1989. (Project 767225 - Continuation)

\$4,000.00 - National Science Foundation, Washington, D.C., Kinetics, Spectroscopy, and Mechanistic Studies of Carbenes, Biradicals, and Radicals, Department of Chemistry (M. S. Platz), 1 February 1989 through 31 January 1990. (Project 767259 - Continuation)

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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$3,307.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Modification of Diet in Renal Disease (MDRD) Study, Department of Internal Medicine (L. A. Hebert), 1 June 1989 through 28 February 1990. (Project 766873 - Continuation)

\$826.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 May 1989 through 31 July 1989. (Project 767556 - Continuation)

\$770.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 May 1989 through 31 July 1989. (Project 767557 - Continuation)

TOTAL - FEDERAL AWARDS

\$5,252,521.50

#### State of Ohio Research Contracts/Grants

\$315,014.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Ecology and Population Dynamics of Lake Erie Fishes, Department of Zoology (B. Vondracek), 1 July 1989 through 30 June 1990. (Project 766201 - Continuation)

\$284,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Southwest Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Studies: Humanities, Science, Technological, and Vocational (A. J. Miller), and Department of Home Economics Education (S. V. Redick), 1 July 1989 through 30 June 1990. (Project 766226 - Continuation)

\$239,750.00 - State of Ohio, Department of Education, Columbus, Ohio, Central Vocational Education Personnel Development Regional Center, Department of Agricultural Education (R. K. Barrick and L. H. Newcomb), Department of Educational Studies: Humanities, Science, Technological, and Vocational (A. J. Miller), and Department of Home Economics Education (S. V. Redick), 1 July 1989 through 30 June 1990. (Project 766218 - Continuation)

\$202,176.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (B. Vondracek, R. A. Stein, and D. A. Culver) and School of Natural Resources (D. L. Johnson), 1 July 1989 through 30 June 1990. (Project 766202 - Continuation)

\$157,760.00 - State of Ohio, Department of Health, Columbus, Ohio, OSU High Risk Perinatal Project -- Care of the High Risk Mother and Infant, Department of Pediatrics (L. Cordero), 1 October 1988 through 30 September 1989. (Project 765042 - Continuation)

\$134,660.00 - State of Ohio, Department of Education, Columbus, Ohio, A Multifaceted Look at the Effects of Program OPTIONS, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767415 - Continuation)

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$80,808.00 - State of Ohio, Department of Health, Columbus, Ohio, Early Intervention Update Survey, Nisonger Center (E. King and S. R. Schroeder), 1 October 1988 through 30 June 1989. (Project 767019 - Continuation)

\$26,074.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Impact of Medication and Individual Versus Group Psychotherapy on Adolescents Who are Severely Emotionally Disturbed and Incarcerated, Department of Psychology (J. C. Gibbs), 26 May 1989 through 31 March 1990. (Project 767505 - New)

\$20,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1989 through 30 June 1990. (Project 766265 - Continuation)

\$19,999.00 - State of Ohio, Department of Education, Columbus, Ohio, Effects of Ohio Investments in Career Guidance Program FY 1988-89 -- Carl D. Perkins Grant to Vocational Districts, Center on Education and Training for Employment (R. D. Ryan), 1 June 1989 through 30 September 1989. (Project 767560 - New)

\$15,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Enhancing Mathematics Through Technology Inservice, Research and Graduate Studies Administration (W. F. Palmer), 17 March 1989 through 30 June 1989. (Project 767392 - New)

\$14,282.00 - State of Ohio, Ohio Library Board, Columbus, Ohio, Retrospective Conversion of the Library's Catalogue of Holdings to Machine-Readable Format, Mansfield Campus (D. Cheatham), 1 July 1989 through 30 June 1990. (Project 767570 - New)

\$7,766.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, A Collaborative Relationship, Department of Family and Community Nursing (J. A. Clement), 21 February 1989 through 30 June 1989. (Project 767349 - New)

\$3,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Images of China: A Cultural Journey, Continuing Education Administration (J. L. Kramer), 3 December 1988 through 31 August 1989. (Project 767526 - New)

\$2,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, The University Learning Guild -- "Images of China: A Cultural Journey," Continuing Education Administration (J. L. Kramer), 4 March 1989 through 28 August 1989. (Project 767517 - New)

Total - State of Ohio Awards \$1,523,039.00

**Industrial Research Contracts/Grants**

\$208,734.60 - Organon, Inc., West Orange, New Jersey, An Ultra-sound Study of Ovarian Cyst Activity Comparing CTR-03 and CTR-05 Versus a Concurrent Untreated Control, Department of Pharmacology (N. Gerber and G. Apseloff), 22 May 1989 through 21 May 1990. (Project 767548 - New)

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$100,000.00 - Mission Research Corporation, Santa Barbara, California, Advanced Radar Cross Section Measurement Range, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and J. D. Young), 1 January 1989 through 31 December 1989. (Project 766973 - Continuation)

\$84,460.00 - Pfizer, Inc., Groton, Connecticut, Study No. 064-017-501, Department of Pharmacology (N. Gerber), 1 May 1989 through 30 April 1990. (Project 767512 - New)

\$76,310.00 - G. H. Besselaar Associates, Princeton, New Jersey, A Double-Blind, Placebo-Controlled, Parallel, Multicenter Study to Assess the Effects of Digoxin Withdrawal on Exercise Tolerance and Other Measures of Clinical Efficacy in Patients, Department of Internal Medicine (R. J. Cody), 1 June 1989 through 28 February 1991. (Project 767535 - New)

\$67,114.00 - Pfizer, Inc., Groton, Connecticut, Study No. 120-003-501, Department of Pharmacology (N. Gerber), 10 April 1989 through 9 April 1990. (Project 767511 - New)

\$60,000.00 - Janssen Research Foundation, Inc., Piscataway, New Jersey, Flunarizine in the Treatment of Partial Seizures - An Open Label Extension Study, Department of Neurology (M. E. Drake, Jr.), 1 June 1989 through 31 May 1991. (Project 767503 - New)

\$45,000.00 - CeramPhysics, Inc., Westerville, Ohio, Ceramic Honeycombs for Joule-Thompson Cryocooler, Department of Materials Science and Engineering (E. R. Kreidler), 6 April 1989 through 30 June 1990. (Project 767533 - New)

\$40,220.00 - Pfizer, Inc., Groton, Connecticut, Study No. 110-003-501, Department of Pharmacology (N. Gerber), 20 April 1989 through 19 April 1990. (Project 767514 - New)

\$39,739.00 - Pfizer, Inc., Groton, Connecticut, Evaluation of the Safety, Clinical Activity, Toleration, and Pharmacokinetics of CP-80,794 -- A Single Escalating Dose Study in Normotensive Healthy Volunteers, Department of Pharmacology (N. Gerber), 18 October 1988 through 31 December 1989. (Project 765696 - Continuation)

\$35,700.00 - Lockheed Engineering and Science Company, Houston, Texas, Tethered Target Scattering Research, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr., E. K. Newman, and N. N. Wang), 26 May 1989 through 26 January 1991. (Project 767524 - New)

\$35,000.00 - Brunswick Corporation, Marion, Virginia, Radome Research, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 November 1988 through 30 September 1989. (Project 767500 - New)

\$26,832.00 - Pfizer, Inc., Groton, Connecticut, Study No. 124-002-501, Department of Pharmacology (N. Gerber), 17 April 1989 through 16 April 1990. (Project 767513 - New)

\$24,000.00 - Owens-Illinois, Columbus, Ohio, Industrial Water Treatment Operator Orientation and Training Development, Education Administration (J. J. Buffer), 1 June 1989 through 31 December 1989. (Project 767519 - New)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Industrial Research Contracts/Grants (contd)**

\$23,235.00 - Adria Laboratories, Dublin, Ohio, Test of the Absorption of Adria Magnesium Lactate Tablets, Department of Pharmacology (N. Gerber), 1 March 1989 through 28 February 1990. (Project 767547 - New)

\$21,455.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 June 1988 through 28 February 1989. (Project 766329 - Continuation)

\$21,450.00 - Church and Dwight Company, Inc., Princeton, New Jersey, Identifying and Characterizing the Flavor Components of Megalac Rumen Bypass Fat, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (D. B. Min), 1 June 1989 through 31 December 1989. (Project 767529 - New)

\$16,869.00 - Brunswick Corporation, Marion, Virginia, Wedge Studies, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 March 1989 through 30 September 1989. (Project 766719 - Continuation)

\$15,261.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Amlodipine to Alter the Pharmacodynamics of Warfarin, Department of Pharmacology (N. Gerber), 1 April 1989 through 31 December 1989. (Project 765696 - Continuation)

\$14,636.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 April 1989 through 30 September 1989. (Project 766470 - Continuation)

\$12,805.00 - Pfizer, Inc., Groton, Connecticut, A Multiple Dose, Double-Blind, Placebo-Controlled Study of the Safety, Toleration, and Pharmacokinetics of CP-72,467 in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 6 September 1988 through 31 December 1989. (Project 765696 - Continuation)

\$10,800.00 - The Firestone Tire and Rubber Company, Akron, Ohio, Measuring Soil Compaction Beneath Agricultural Tires, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (R. K. Wood and R. G. Holmes) and Department of Agricultural Engineering - OARDC and Cooperative Extension State Operations (R. C. Reeder), 15 May 1989 through 30 June 1990. (Project 767523 - New)

\$9,476.84 - Universal Energy Systems, Inc., Dayton, Ohio, Demonstration of Parallel Computation for a 3D-Rigid Viscoplastic Finite Element Method, Department of Computer and Information Science (P. Sadayappan, F. E. Ozguner, and K. Schwan) and Department of Electrical Engineering (B. Weide), 1 July 1988 through 30 November 1988. (Project 765894 - Continuation)

\$9,308.00 - CeramPhysics, Inc., Westerville, Ohio, Stress Analysis of Honeycomb Structures, Department of Materials Science and Engineering (P. M. Anderson), 1 July 1989 through 31 March 1991. (Project 767594 - New)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Industrial Research Contracts/Grants (contd)**

\$5,659.00 - GAC International, Central Islip, New York, Evaluation of New Orthodontic Bracket Base, Orthodontics (Z. Davidovitch), 17 April 1989 through 17 October 1989. (Project 767520 - New)

\$3,960.00 - E. I. Du Pont de Nemours and Company, Inc., Newark, Delaware, Evaluation of Soybean F<sub>2</sub> Populations, Department of Agronomy - OARDC (B. A. McBlain), 1 December 1988 through 31 December 1990. (Project 767433 - Continuation)

\$2,631.00 - Oral-B Laboratories, Redwood City, California, The Effectiveness of Dental Floss, Interdental Brushes, and a Non-Dental Cotton Coated Wire in Removing Supragingival Accumulations in a Periodontally Diseased Model, Dental Hygiene (C. H. Devore), 1 July 1989 through 30 September 1990. (Project 767576 - New)

\$2,444.00 - Adria Laboratories, Columbus, Ohio, Single Dose Pharmacokinetic and Bioavailability Study of Toremfene in Postmenopausal Healthy Volunteers, Department of Pharmacology (N. Gerber), 1 July 1989 through 30 June 1990. (Project 767554 - New)

\$1,500.00 - Navistar International Transportation Corporation, Columbus, Ohio, Winning Through Fitness, School of Health, Physical Education, and Recreation (W. J. Rudman), 1 January 1989 through 31 December 1989. (Project 767298 - Continuation)

**TOTAL - INDUSTRIAL AWARDS**

**\$1,014,599.44**

#### **Other Non-Federal Research Contracts/Grants**

\$312,852.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1989 through 30 September 1990. (Project 767544 - Continuation)

\$277,808.00 - University of Pennsylvania, Philadelphia, Pennsylvania, Conducting Electronic Polymers by Non-Redox Processes Synthesis, Physical Studies, and Application, Department of Physics (A. J. Epstein), 1 April 1989 through 31 March 1990. (Project 765670 - Continuation)

\$175,977.00 - Healthcare Financial Management Association, Westchester, Illinois, The Development of a Financial Service for the Hospital Industry, Hospital and Health Services Administration (W. O. Cleverley), 1 July 1989 through 30 June 1990. (Project 761794 - Continuation)

\$116,267.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Exemplary Dental Services for the Handicapped, Nisonger Center (E. S. Sterling), 1 July 1989 through 30 June 1990. (Project 767539 - Continuation)

\$73,000.00 - American Cancer Society, Atlanta, Georgia, Patterns of Macromolecular Synthesis During Acquisition and Loss of Amplified Genes, Department of Radiology (R. M. Snapka), 1 July 1989 through 30 June 1990. (Project 765521 - Continuation)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$45,410.00 - AARP Andrus Foundation, Washington, D.C., A Plan to Increase Hope in the Older Population Through an Increase in Positive Activities and Imagery, Newark Campus (S. Staats), 1 July 1989 through 30 June 1990. (Project 767572 - New)

\$42,287.00 - The Association for Computers and the Humanities, Chicago, Illinois, Text Encoding Initiative, Department of Computer and Information Science (S. A. Mamrak), 1 January 1989 through 31 May 1990. (Project 767580 - New)

\$30,000.00 - National Alliance for Research on Schizophrenia and Depression, Chicago, Illinois, Investigation of Anti-depressants Acting in the GABA-Receptor Chloridionophore Complex, Department of Psychiatry (S. C. Dilsaver and E. Malatynska), 1 July 1989 through 30 June 1990. (Project 767530 - New)

\$28,000.00 - Columbus State Community College, Columbus, Ohio, Intramural/Recreation and Athletic Training/Administration Program, School of Health, Physical Education, and Recreation (W. A. Sutton), 1 July 1989 through 30 June 1990. (Project 767549 - Continuation)

\$27,500.00 - Eleven Members of the National Entrepreneurship Education Consortium, National Entrepreneurship Education Consortium, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766880 - Continuation)

\$26,100.00 - Battelle Memorial Institute, Columbus, Ohio, Central Electron Optics Facility Analytical Services for Battelle, Central Electron Optics Facility (R. W. Burry), 15 November 1988 through 8 September 1989. (Project 767565 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Isolated Myocytes from Spontaneously Failing Rat Hearts, Department of Physiological Chemistry (R. A. Altschuld), 1 July 1989 through 30 June 1990. (Project 767562 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Isolated Myocytes from Failing Human Ventricle, Department of Physiological Chemistry, (R. A. Altschuld and Q. Li), 1 July 1989 through 30 June 1990. (Project 767564 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Calcium Cycle of Heart Mitochondria, Department of Physiological Chemistry (D. Jung), 1 July 1989 through 30 June 1990. (Project 767563 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Role of Atrial Natriuretic Peptide and Other Vasoactive Hormones in Developing Hypertension in SHR:N-Mccp Rats, Department of Veterinary Pathobiology (M. J. Radin), 1 July 1989 through 30 June 1990. (Project 767568 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Investigation of Autonomic Responses to Passive Upright Tilt in Symptomatic Patients with Mitral Valve Prolapse, Department of Internal Medicine (S. F. Schaal), 1 July 1989 through 30 June 1990. (Project 767550 - New)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Effects of Angioplastic (PTCA) on Regional Diastolic Function in Limited Coronary Artery Disease, Department of Internal Medicine (D. B. Van Fossen), 1 July 1989 through 30 June 1990. (Project 767552 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Z-line Structural Dynamics as a Function of Physiological State, Department of Veterinary Anatomy and Cellular Biology (M. Yamaguchi), 1 July 1989 through 30 June 1990. (Project 767567 - New)

\$19,996.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Pathogenesis of Non-Pulmonary Organ Failure in Adult Respiratory Distress Syndrome (ARDS), Department of Internal Medicine (P. M. Dorinsky), 1 July 1989 through 30 June 1990. (Project 767551 - New)

\$19,996.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Mechanisms of Organ Injury During the Pathogenesis of Phorbol Myristate Acetate-Induced Adult Respiratory Distress Syndrome, Department of Veterinary Anatomy and Cellular Biology (L. A. Mizer), 1 July 1989 through 30 June 1990. (Project 767573 - New)

\$19,980.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Cellular Dynamics of Failure-Prone Cardiomyocytes, Department of Physiology (B. T. Stokes), 1 July 1989 through 30 June 1990. (Project 767558 - New)

\$19,944.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Autonomic Control of the Contractile and Endocrine Function of the Heart, Department of Internal Medicine (R. J. Cody and G. J. Haas), 1 July 1989 through 30 June 1990. (Project 767569 - New)

\$19,747.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Roles of Hypertension and Arrhythmia in a Rat Heart Failure Model, Department of Veterinary Physiology and Pharmacology (R. L. Hamlin), 1 July 1989 through 30 June 1990. (Project 767575 - New)

\$18,000.00 - Ten Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766839 - Continuation)

\$16,874.00 - Battelle Memorial Institute, Columbus, Ohio, Parainfluenza Pneumonia and Vaccination, Department of Veterinary Pathobiology (G. S. Krakowka), 1 June 1989 through 30 September 1989. (Project 767574 - New)

\$15,000.00 - Arthritis Foundation - Central Ohio Chapter, Columbus, Ohio, Immunoregulation and Autoimmunity, Department of Internal Medicine (R. L. Whisler), 1 April 1989 through 31 March 1990. (Project 760620 - Continuation)

\$10,614.00 - Hong Kong Government, Hong Kong, Study Tour for the Vocational Training Council -- Hong Kong, Center on Education and Training for Employment (R. D. Ryan), 1 May 1989 through 31 July 1989. (Project 767527 - New)



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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$10,240.00 - The Columbus Foundation, Columbus, Ohio, Audiology Equipment to Increase Identification of Increased Numbers of Hearing Impaired Infants, Nisonger Center (P. Niswander), 1 June 1989 through 31 May 1990. (Project 767553 - New)

\$9,540.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (J. F. Disinger), 1 July 1989 through 30 June 1990. (Project 765812 - Continuation)

\$8,350.00 - Great Lakes Commission, Ann Arbor, Michigan, Great Lakes Curriculum Development, School of Natural Resources (R. W. Fortner), 1 June 1989 through 31 December 1989. (Project 767509 - New)

\$6,675.00 - Ohio Poultry Association, Columbus, Ohio, Testing Feeding Programs for Layers Which Have Different Protein, Amino Acid, and Energy Levels for Their Cost Effectiveness, Department of Poultry Science - OARDC and Department of Poultry Science (J. D. Latshaw), 1 June 1989 through 30 May 1990. (Project 767541 - New)

\$5,021.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Subcontract for the General Participant Training II Project in Indonesia, Office of International Affairs (D. G. McCloud), 1 April 1988 through 21 June 1989. (Project 766807 - Continuation)

\$5,000.00 - Ohio Poultry Association, Columbus, Ohio, The Growth Characteristics of Nicholas and British United Turkey Toms When Fed Diets Containing Two Levels of Dietary Protein and the Response of Hens to Step-Down Versus Step-Up Lighting Programs, Department of Poultry Science - OARDC (M. S. Lilburn), 1 April 1989 through 31 December 1989. (Project 767542 - New)

\$4,409.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 767080 - Continuation)

\$2,500.00 - Sport Fishing Institute, Washington, D.C., The Effects of Trip Duration and Angler Demographics on Recreation Demand Functions: The Case of Ohio's Lake Erie Sport Fishery, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak), 1 October 1989 through 30 June 1990. (Project 767545 - New)

\$2,470.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Mesothelioma Pathology Subcommittee, Department of Pathology (J. G. Lucas), 1 January 1989 through 31 December 1989. (Project 764837 - Continuation)

\$1,924.00 - Arts Midwest, Minneapolis, Minnesota, Ballet West, Mershon Auditorium (R. Stearns), 28 September 1989 through 28 September 1989. (Project 767501 - New)

\$1,425.00 - Arts Midwest, Minneapolis, Minnesota, David Parsons Dance Company, Mershon Auditorium (R. Stearns), 24 January 1990 through 26 January 1990. (Project 767499 - New)

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$1,000.00 - Detroit Edison Company, Newport, Michigan, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

Equipment - University of Colorado, Boulder, Colorado, University NAVSTAR Consortium Membership, Center for Mapping (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 767555 - New) (Approximate Dollar Value - \$50,000)

**TOTAL - OTHER NON-FEDERAL AWARDS** **\$1,513,906.00**

**ENGINEERING EXPERIMENT STATION**

**State Sponsored Research and Development**

\$78,485.00 from The Ohio Coal Development Office, Columbus, Ohio, for "Agglomeration Column Flotation for Cleaning and Desulfurization of Ohio Coal Fines," under the direction of the department of Materials Science and Engineering for the period May 1, 1989 through August 1, 1990. (529810)

\$40,000.00 from the Edison Program, Columbus, Ohio, and Arcair, Columbus, Ohio, for "Development of Underwater Shielded Metal-Arc Welding Electrode," under the direction of the Department of Welding Engineering for the period July 1, 1989 through June 30, 1990. (312511)

\$2,500.00 from The Ohio Department of Development, Columbus, Ohio, for "UNESCO Conference," under the direction of the College Office, for the period May 1, 1989 through July 31, 1989. (529813)

**TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT** **\$120,985.00**

**Industrial and Other Sponsored Research and Development**

\$74,414.00 from B. F. Goodrich, Troy, Ohio, for "Convection Heat Transfer Study," under the direction of the Department of Mechanical Engineering for the period May 10, 1989 through June 30, 1990. (529811)

\$50,130.00 from Teledyne Monarch Rubber Company, Hartville, Ohio, for "Computer Modeling of Hydromounts," under the direction of the Department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (529809)

\$41,524.00 from Teledyne Monarch Rubber Company, Hartville, Ohio, for "Design of Adaptive Hydromounts," under the direction of the Department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (529808)

\$39,979.00 from The American Foundrymen's Society, Inc., DesPlaines, Illinois, for "Influence of Sand Surface Chemistry on Bonding," under the direction of the Department of Materials Science and Engineering for the period May 1, 1989 through May 1, 1990. (529806)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **ENGINEERING EXPERIMENT STATION (contd)**

#### **Industrial and Other Sponsored Research and Development (contd)**

\$35,000.00 from B. F. Goodrich Aerospace, Uniontown, Ohio, for "Droplet Impingement Program," under the direction of the Department of Aeronautical and Astronautical Engineering for the period June 1, 1989 through May 31, 1990. (312512)

\$23,967.00 from 33 sponsors of 42 development projects under the direction of three departments/research areas of the College.

\$20,141.00 from Nippon Yakin Kogyo Co., Ltd., Tokyo Japan, for "Oxide Modification of Aluminum Bearing Stainless Steels using CO2 Laser Beams," under the direction of the department of Welding Engineering for the period May 19, 1989 through December 30, 1990. (312510)

\$17,500.00 additional funding from General Electric, Cincinnati, Ohio, for "Lufthansa Engine Test Cell Model Study #2," under the direction of the Department of Aeronautical and Astronautical Engineering, for the period March 1, 1988 through December 31, 1989. (312449, Ext. 1)

\$15,099.00 from BBN Advanced Computers, Cambridge, Mass., for "Port of Portable Common Loops to Butterfly Common LISP," under the direction of the Department of Computer and Information Science, for the period June 15, 1989 through December 31, 1989. (529814)

\$14,000.00 additional budget from American Society of Mechanical Engineers, New York, NY, for "Editing Services -- Journal of Mechanisms, Transmission and Automation in Design," under the direction of the Department of Mechanical Engineering for the period December 1, 1987 through September 30, 1989. (312441, Ext. 1)

\$2,550.00 additional funding from Battelle Columbus Division, Columbus, Ohio, for "Transport and Dosimetry Analysis Test Specimen Evaluation," under the direction of the Nuclear Reactor Laboratory for the period April 1, 1988 through November 30, 1989. (312460, Ext. 4)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$334,304.00

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

#### **Establishment of Named Funds**

##### **Ohio Eminent Scholar in High-Temperature Structural Materials**

The Ohio Eminent Scholar in High-Temperature Structural Materials was established August 23, 1989, by the Board of Trustees of The Ohio State University with \$500,000 awarded by the General Assembly of Ohio and a matching \$500,000 from unrestricted gifts to the University.

The funds are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide salary and program support for the work of an outstanding scholar-leader in high-temperature structural materials. Appointment as the Ohio

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **Ohio Eminent Scholar in High-Temperature Structural Materials (contd)**

Eminent Scholar in High-Temperature Structural Materials will be recommended by the Dean of the College of Engineering to the Provost and President and approved by the Board of Trustees.

Should the need for this position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for education and research in metallurgical engineering. Any redirection of this endowment prior to ten years from the date established shall require the prior approval of the Ohio Board of Regents.

##### **Ohio Eminent Scholar in Macromolecular Structure Determination**

The Ohio Eminent Scholar in Macromolecular Structure Determination was established August 23, 1989, by the Board of Trustees of The Ohio State University with \$500,000 awarded by the General Assembly of Ohio and a matching \$500,000 from unrestricted gifts to the University.

The funds are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide salary and program support for the work of an outstanding scholar-leader in macromolecular structure determination. Appointment as the Ohio Eminent Scholar in Macromolecular Structure Determination will be recommended by the Dean of the College of Mathematical and Physical Sciences to the Provost and President and approved by the Board of Trustees.

Should the need for this position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for education and research in chemistry. Any redirection of this endowment prior to ten years from the date established shall require the prior approval of the Ohio Board of Regents.

##### **Ohio Eminent Scholar in Protein Engineering**

The Ohio Eminent Scholar in Protein Engineering was established August 23, 1989, by the Board of Trustees of The Ohio State University with \$500,000 awarded by the General Assembly of Ohio and a matching \$500,000 from unrestricted gifts to the University.

The funds are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **Ohio Eminent Scholar in Protein Engineering (contd)**

The annual income shall be used to provide salary and program support for the work of an outstanding scholar-leader in protein engineering. Appointment as the Ohio Eminent Scholar in Protein Engineering will be recommended by the Dean of the College of Biological Sciences to the Provost and President and approved by the Board of Trustees.

Should the need for this position cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for education and research in biochemistry. Any redirection of this endowment prior to ten years from the date established shall require the prior approval of the Ohio Board of Regents.

##### **Ford Motor Company - EEOC Scholarship For Minorities and Women**

The Ford Motor Company - EEOC Scholarship for Minorities and Women was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Ford Motor Company.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for minorities and women, with preference given to Ford Motor Company employees, their spouses and children. These scholarships are not to be restricted to any particular college or discipline. Scholarships are targeted primarily to students in undergraduate programs; however, at the University's discretion, scholarships may be awarded to students enrolled in the Graduate School. Awards for undergraduate students may be renewed up to three times but may be renewed only once for graduate students. Eligibility to continue in the program requires that all student participants meet the academic requirements established by the University. Awards may be expanded beyond tuition to include other expenses, such as: class textbooks, laboratory fees, room and board in campus facilities, mandatory admission fees or instructional fees. No recreational, sports or social activities are coverable, unless such fees are part of the degree requirement.

For those applicants who claim a Ford Motor Company connection, the University will require candidates to complete a verification form provided by Ford Motor Company. If no Ford Motor Company employees, their spouses or offspring apply, the University may use available funds for other minorities and women who apply for financial assistance. Scholarship recipients shall be chosen by the University Committee on Student Financial Aid.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**Ford Motor Company - EEOC Scholarship  
For Minorities and Women (contd)**

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

**The Campbell Hall Building Fund**

The Campbell Hall Building Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni and friends of the College of Human Ecology for the New Ventures, New Vision Campaign.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be added to the principal until the University makes a final determination on the financing arrangements of the Campbell Hall Building Additions Project. The College of Human Ecology reserves the right to invade the principal to cover building-related costs and fees following the final determination of the financing arrangements.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.

**The Henry County 4-H Endowment Fund**

The Henry County 4-H Endowment Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from persons interested in the Henry County 4-H program.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The first \$550 of annual income shall be used for the Henry County 4-H Scholarship, the recipient of which will be selected by a committee including a Henry County Extension Agent, a respected agricultural leader in Henry County and a representative of the Henry County 4-H Endowment Committee, in consultation with the University Committee on Student Financial Aid. Any distributable income above the amount of \$550 will be applied to the purposes of the Henry County 4-H program at the direction of the Henry County 4-H Endowment Committee or its successor.

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Henry County 4-H Endowment Fund (contd)**

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

##### **The Sam Cashman Family 4-H Endowment Fund**

The Sam Cashman Family 4-H Endowment Fund be established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from friends, relatives and colleagues of Sam Cashman (B.S.Agr. '41) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Under the administration of the State 4-H Leader or his/her designee in the State of Ohio 4-H Office, the annual income shall be used to support development of innovative ways to expand 4-H membership and to find more effective ways of attracting and keeping older youth (ages 13-18) in 4-H.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

##### **75th Anniversary Scholarship Fund**

The 75th Anniversary Scholarship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from alumni, special friends, hospitals and other corporations in recognition of the College of Nursing's 75th anniversary.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide undergraduate nursing scholarships at The Ohio State University College of Nursing. Scholarship recipients shall be chosen by the Dean of the College of Nursing upon recommendation of the Director of Nursing Student Affairs and in consultation with the University Committee on Student Financial Aid.

August 23, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**75th Anniversary Scholarship Fund (contd)**

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

**The S. Maurice Bostic and Birch S. M. Bostic  
Memorial Award Fund**

The S. Maurice Bostic and Birch S. M. Bostic Memorial Award Fund was established August 23, 1989, in honor of S. Maurice Bostic, past president of the Columbus Trucking Company, Commercial Motor Freight, Inc. and Birch S. M. Bostic, grandson of S. Maurice Bostic, and member of the Sigma Chi fraternity, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Ohio Trucking Association and friends, family, and fraternity brothers of Birch S. M. Bostic.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more awards to the outstanding male member(s) of the baccalaureate graduating class of the College of Business. The award(s) shall be based on recognition of both academic excellence and outstanding leadership and shall be presented at the annual Pace Setters Banquet. The award recipient(s) shall be selected upon the recommendation of the College of Business Pace Setters Selection Committee with final approval by the Dean of the College of Business.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with a representative(s) of full-time students of The Ohio State University who are active members of the Sigma Chi fraternity and/or a representative(s) of the undergraduate full-time students of the College of Business, the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donors.

**The Robert A. Barnes Award  
for Exemplary Teaching**

The Robert A. Barnes Award for Exemplary Teaching was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Robert A. Barnes (Ph.D., Education, '63) of Newark, Ohio.



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Robert A. Barnes Award  
for Exemplary Teaching (contd)**

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an award for exemplary teaching to be presented not more often than once each year to an Ohio State University faculty member with an annual, full-time teaching assignment at the University's campus at Newark, Ohio.

The recipient's name is to be engraved on an appropriate plaque to be presented to the individual and on another plaque to be permanently and prominently displayed at the Newark Campus. Both plaques shall bear the full name of the award.

At the option of the recipient, the award shall consist of one of the following:

A one-thousand-dollar cash prize

One thousand dollars worth of teaching-related travel provided by the University

One thousand dollars worth of teaching-related publications or equipment provided by the University for the recipient's teaching area -- such to remain property of the University.

The criteria and procedures for annual recipient selection and presentation shall be determined by the chief administrator of The Ohio State University at Newark, in consultation with the Newark Campus faculty.

The first presentation of this award will take place when the annual income reaches \$1,000. If in future years the annual income consistently exceeds \$1,000, the chief administrator of the Newark Campus can or may recommend to The Ohio State University Development Fund that the annual award be adjusted to a higher amount.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the chief administrator of the University's campus at Newark, Ohio, or, if such should no longer exist, the most appropriate University administrator.

August 23, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - July 1989

#### Federal Research Contracts/Grants

\$979,559.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Regional Resource Center, Education Administration (T. M. Stephens), 1 June 1989 through 31 May 1990. (Project 766183 - Continuation)

\$370,738.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Neurobehavioral Deficit and Psychopathology in HIV+ Men, Department of Psychiatry (R. A. Bornstein and H. A. Nasrallah), 1 July 1989 through 30 June 1990. (Project 767581 - New)

\$259,192.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, In Situ T Cell Function in Rejecting Allografts, Department of Surgery (C. G. Orosz), 1 July 1989 through 30 June 1990. (Project 764493 - Continuation)

\$183,849.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Immediate Early Gene Regulation in Herpes Simplex Virus, Department of Molecular Genetics (M. T. Muller), 1 July 1989 through 30 June 1990. (Project 767528 - New)

\$157,557.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Study of the Clinical Pharmacokinetics of Anti-Cancer Drugs, College of Pharmacy (L. Malspeis), 1 June 1989 through 31 May 1990. (Project 766139 - Continuation)

\$151,885.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Imidazoline Analogs as Probes of A-Adrenoceptors, College of Pharmacy (D. D. Miller, P. N. Patil, and D. R. Feller), 1 August 1989 through 31 July 1990. (Project 763483 - Continuation)

\$150,603.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Molecular and Functional Analysis of Human Class 1 Heparin-Binding Growth Factor (HBGF), Department of Internal Medicine and Comprehensive Cancer Center (I. M. Chiu), 1 July 1989 through 30 June 1990. (Project 766083 - Continuation)

\$150,000.00 - National Science Foundation, Washington, D.C., Neuronal Proteins in Synapse Development, Department of Anatomy (R. W. Burry), 15 July 1989 through 30 June 1991. (Project 767644 - New)

\$140,000.00 - National Science Foundation, Washington, D.C., Liquid and Solid Helium at Very Low Temperatures, Department of Physics (D. O. Edwards), 15 July 1989 through 30 June 1990. (Project 767398 - New)

\$138,869.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Gastrointestinal Kallikrein and Renin Systems, Department of Physiology (P. E. Ward), 1 July 1989 through 30 June 1990. (Project 766971 - Continuation)

August 23, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$138,000.00 - Department of the Interior, Bureau of Mines, Washington, D.C., Mining and Mineral Resources Research Institute -- Annual Allotment, Department of Materials Science and Engineering (G. R. St. Pierre), 1 June 1989 through 31 May 1990. (Project 767611 - Continuation)

\$136,425.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Coronary Phenotypic Modulation After Cardiac Transplant, Department of Anatomy (A. R. Strauch) and Department of Internal Medicine (R. C. Starling), 1 July 1989 through 30 April 1990. (Project 767634 - New)

\$135,810.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, The Immune Complex-Mediated Glomerulopathies, Department of Internal Medicine (L. A. Hebert), 1 July 1989 through 30 June 1990. (Project 761786 - Continuation)

\$132,817.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Cholinergic Systems and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) Neurotoxicity, Department of Pharmacology (N. H. Neff and M. H. Neff), 1 July 1989 through 30 June 1990. Project 766209 - Continuation)

\$129,980.00 - National Science Foundation, Washington, D.C., Completion of Velocity Survey of Ice Stream B and Catchments of Ice Streams B and C, Byrd Polar Research Center and Department of Geology and Mineralogy (I. M. Whillans), 15 April 1988 through 30 September 1990. (Project 766672 - Continuation)

\$126,084.00 - Department of Agriculture, Science and Education, Washington, D.C., New Uses for Agricultural Products, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (T. L. Sporleder and C. R. Zulauf), 1 July 1989 through 30 June 1990. (Project 767650 - New)

\$124,721.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Localization of the Functional Domains on the Bacillus thuringiensis Delta-Endotoxin, Department of Biochemistry (D. H. Dean), 1 July 1989 through 30 June 1990. (Project 767596 - New)

\$116,320.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Anterior Cruciate Ligament Reconstruction, Department of Mechanical Engineering (N. Berme) and Department of Surgery (S. R. Simon), 1 August 1989 through 31 July 1990. (Project 766933 - Continuation)

\$115,619.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Effects of Father's Absence: Sociodemographic Analysis, Center for Human Resource Research (F. L. Mott), 1 July 1989 through 30 June 1990. (Project 766858 - Continuation)

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

**\$113,630.00** - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Gastric Function -- Central Control, Department of Physiology (R. C. Rogers), 1 July 1989 through 30 June 1990. (Project 765541 - Continuation)

**\$112,686.00** - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Salamander Limb Regeneration: Studies with Monoclonal Antibodies, Department of Molecular Genetics (R. A. Tassava), 1 July 1989 through 30 June 1990. (Project 766132 - Continuation)

**\$110,000.00** - National Science Foundation, Washington, D.C., Development of Screening Techniques for Aqueous Drag Reducing Surfactants and Its Utilization for Finding More Efficient Additive Systems, Department of Chemical Engineering (J. L. Zakin), 1 September 1989 through 30 April 1991. (Project 767676 - New)

**\$108,401.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Regulation of Macrophage Interleukin-1 Beta Production, Department of Internal Medicine (M. D. Wewers), 1 July 1989 through 30 June 1990. (Project 767518 - New)

**\$100,000.00** - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Volunteers for Participation in Medical Research Projects, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 17 July 1989 through 16 July 1990. (Project 767666 - Continuation)

**\$96,000.00** - Department of Agriculture, Science and Education, Washington, D.C., A Multidisciplinary Ph.D. Fellowship Program in Water Science, Department of Agricultural Engineering (R. J. Gustafson), 1 September 1989 through 31 August 1994. (Project 767640 - New)

**\$90,530.00** - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Determination of Proteins Associated with Dystrophin, Department of Physiological Chemistry and Department of Neurology (A. M. Burghes), 1 July 1989 through 30 June 1990. (Project 767635 - New)

**\$90,394.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cell-Mediated Immunity Regulation and Reinfection: Role of Conrallymphokine, Oral Biology (J. F. Sheridan), 1 July 1989 through 30 June 1990. (Project 766852 - Continuation)

**\$85,400.00** - Department of Agriculture, Science and Education, Washington, D.C., Molecular Mechanisms of Geminivirus Replication, Biotechnology Program and Department of Molecular Genetics (D. M. Bisaro), 1 September 1989 through 31 August 1990. (Project 766350 - Continuation)

**\$85,000.00** - National Science Foundation, Washington, D.C., X-Ray Spectroscopy of Metal Centers in Respiratory Proteins, Department of Physiological Chemistry (J. O. Alben), 1 August 1989 through 31 July 1990. (Project 767637 - New)

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

**\$84,350.00** - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver), 1 August 1989 through 31 July 1990. (Project 766385 - Continuation)

**\$83,158.00** - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Catalytic Sites of Two Calmodulin-Dependent Enzymes, Department of Chemistry (M. M. King), 1 July 1989 through 30 June 1990. (Project 767619 - New)

**\$81,130.00** - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Feline Retrovirus Associated Intestinal Dysfunction, Department of Veterinary Pathobiology (L. E. Mathes), 1 July 1989 through 30 June 1990. (Project 766909 - Continuation)

**\$80,647.00** - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Calcium and Calmodulin in Smooth Muscle Contraction, Department of Physiological Chemistry (J. D. Johnson), 1 July 1989 through 30 June 1990. (Project 764737 - Continuation)

**\$80,000.00** - Department of Agriculture, Science and Education, Washington, D.C., Role of Constitutive Isoflavone Conjugates in Soybean Resistance to Phytophthora, Department of Plant Pathology - OARDC and Department of Plant Pathology (T. L. Graham), 1 August 1989 through 31 July 1991. (Project 767639 - New)

**\$75,000.00** - National Science Foundation, Washington, D.C., Molecular Phylogeny and Evolution of Compositae of the Juan Fernandez Islands, Department of Botany (D. J. Crawford and T. F. Stuessy), 15 July 1989 through 30 June 1990. (Project 767622 - New)

**\$71,269.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Phase I and Clinical Pharmacokinetic Studies of Anticancer Agents, Comprehensive Cancer Center and Department of Internal Medicine (S. P. Balcerzak and B. Behrens) and College of Pharmacy (L. Malspeis), 1 June 1989 through 30 November 1989. (Project 764860 - Continuation)

**\$69,530.00** - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Deoxyuridine Metabolism in Herpes Labialis, Department of Microbiology and Immunology (M. V. Williams), 1 July 1989 through 30 June 1990. (Project 764006 - Continuation)

**\$68,500.00** - National Science Foundation, Washington, D.C., The Relativistic Optical Model at Intermediate Energies, Department of Physics (B. C. Clark), 15 July 1989 through 30 June 1990. (Project 767674 - New)

**\$65,898.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Correlation of 3-D Coronary Axial Geometry and Pathology, Biomedical Engineering Center (M. H. Friedman), 1 July 1989 through 30 June 1990. (Project 766943 - Continuation)

August 23, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$65,500.00 - National Science Foundation, Washington, D.C., Synthetic Catalysts Based on Reversible Covalent Bond Formation, Department of Chemistry (A. W. Czarnik), 15 June 1989 through 31 May 1990. (Project 767602 - New)

\$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (D. L. Cox), 1 January 1990 through 31 December 1990. (Project 766937 - Continuation)

\$61,996.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Molecular Organization of a Membrane Protein Complex, Department of Botany and Department of Biochemistry (R. T. Sayre), 1 July 1989 through 30 June 1990. (Project 766849 - Continuation)

\$60,000.00 - National Science Foundation, Washington, D.C., Partial Oxidation of Methane to Methanol and Formaldehyde over Molybdenum-Oxide-Based Catalysts, Department of Chemical Engineering (U. Ozkan), 1 August 1989 through 31 July 1990. (Project 767675 - New)

\$60,000.00 - National Science Foundation, Washington, D.C., Isomorphism Problems in Structural Complexity Theory, Department of Computer and Information Science (T. J. Long), 15 July 1989 through 30 June 1991. (Project 767543 - New)

\$59,949.00 - National Science Foundation, Washington, D.C., Communication and Synchronization in Parallel Computation, Department of Computer and Information Science (D. Jayasimha), 1 July 1989 through 30 June 1991. (Project 767677 - New)

\$57,614.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Physiological Analysis of Optic Nerve Disease, College of Optometry (P. E. King-Smith), 1 August 1989 through 31 July 1990. (Project 763996 - Continuation)

\$55,302.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Stochastic Estimation of Coherent Structures and Their Dynamics in Transitional and Turbulent Layers, Department of Mechanical Engineering (Y. G. Guezennec), 15 June 1989 through 14 June 1990. (Project 767647 - New)

\$54,938.00 - National Science Foundation, Washington, D.C., Continuation of a Study of the Windfield Near Terra Nova Bay, Byrd Polar Research Center (D. H. Bromwich), 15 July 1988 through 31 December 1990. (Project 766896 - Continuation)

\$51,863.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Molecular Analysis of Exotoxin A from Pseudomonas aeruginosa, Department of Microbiology (D. R. Galloway), 1 June 1989 through 31 May 1990. (Project 766775 - Continuation)

\$50,091.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Small Instrumentation Program, Medicine Administration (D. G. Cornwell), 15 July 1989 through 30 June 1990. (Project 767690 - New)

August 23, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$49,982.00 - National Science Foundation, Washington, D.C., Expression of a Recombinant Protein Kinase, Department of Chemistry (M. M. King), 1 September 1989 through 31 August 1990. (Project 767657 - New)

\$49,198.00 - National Science Foundation, Washington, D.C., Behavioral and Neural Plasticity in the Developing Brain, Department of Psychology (J. P. Bruno), 1 September 1989 through 28 February 1991. (Project 766304 - Continuation)

\$48,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Food, Forest Products, or Agribusiness Marketing, Department of Agricultural Economics and Rural Sociology (J. Havlicek and D. R. Henderson), 1 September 1989 through 31 August 1994. (Project 767672 - New)

\$45,926.00 - National Science Foundation, Washington, D.C., Econometric Models of Probabilistic Choice Over a Continuous Choice Set, Department of Economics (S. R. Cosslett), 1 July 1989 through 30 June 1990. (Project 767597 - New)

\$45,737.00 - National Science Foundation, Washington, D.C., A Strontium, Oxygen, and Carbon Isotopic Study of Cenozoic Marine Biogenic Carbonate from Antarctica, Byrd Polar Research Center and Department of Geology and Mineralogy (P. N. Webb) and Department of Geology and Mineralogy (E. Barrera), 15 June 1989 through 31 May 1990. (Project 767689 - New)

\$44,997.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Decentralized Control and Identification Experiments for the NASA Langley Research Center SCOLE (Spacecraft Control Laboratory Experiment Program), Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 October 1989 through 30 September 1990. (Project 765807 - Continuation)

\$42,500.00 - National Science Foundation, Washington, D.C., Multilinear Analysis of Spectroscopic Data, Department of Statistics (S. E. Leurgans), 1 July 1989 through 30 June 1990. (Project 767631 - New)

\$40,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Jet Noise Production and Radiation, Department of Aeronautical and Astronautical Engineering (J. N. Scott and R. J. Bodonyi), 29 June 1989 through 15 October 1989. (Project 767656 - New)

\$33,665.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, DNA Diagnostic Probes for Acanthamoeba Keratitis, Department of Molecular Genetics (T. J. Byers), 15 July 1989 through 14 July 1990. (Project 767688 - New)

\$30,000.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, ElectroScience Laboratory, Department of Electrical Engineering (R. Rudduck), 1 September 1989 through 31 August 1991. (Project 763724 - Continuation)

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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$30,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Substrate Recognition by Archaeobacterial tRNA Intron Processing Enzymes, Department of Microbiology (C. J. Daniels), 1 August 1989 through 30 November 1989. (Project 767661 - New)

\$29,250.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Eustachian Tube Mucociliary Function in Otitis Media, Department of Otolaryngology (D. J. Lim and J. Cotichia), 1 July 1989 through 30 June 1990. (Project 767610 - New)

\$29,192.00 - National Science Foundation, Washington, D.C., Collaborative Research: Fort Payne Formation Echinoderms: Systematics, Paleoecology, and Regional Synthesis (Lower Mississippian, Midcontinental United States), Department of Geology and Mineralogy (W. I. Ausich), 1 September 1989 through 31 August 1990. (Project 767673 - New)

\$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Linguistics (M. E. Beckman), 1 March 1990 through 28 February 1991. (Project 766861 - Continuation)

\$24,500.00 - Department of the Interior, Geological Survey, Reston, Virginia, Ohio-Indiana Regional Aquifer System Analysis Project, Center for Mapping (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 767669 - New)

\$19,000.00 - National Science Foundation, Washington, D.C., The Limit of High Reynolds Number for Shear Layers, Department of Mathematics (G. R. Baker and G. Majda), 15 June 1989 through 31 May 1990. (Project 767636 - New)

\$19,000.00 - National Science Foundation, Washington, D.C., Construction and Study of Certain Infinite Dimensional Processes, Department of Mathematics (P. March), 15 July 1989 through 30 June 1991. (Project 767605 - New)

\$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., Fault Tolerant Control Using Neural Nets for Large Flexible Space Structures, Department of Electrical Engineering (U. Ozguner), 1 August 1989 through 31 July 1990. (Project 767653 - New)

\$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Aging and Diabetes: Coping with Chronic Illness, Department of Life Span Process (E. M. Burns), 1 September 1989 through 31 August 1990. (Project 767664 - New)

\$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Interval Inspiratory Muscle Training in Chronic Obstructive Pulmonary Disease (COPD) Patients, Department of Family and Community Nursing (M. G. MacVicar), 1 July 1989 through 30 June 1990. (Project 767685 - New)

\$12,000.00 - National Science Foundation, Washington, D.C., Development of a Systems Ecology Study of Low-Input Sustainable Agroecosystems, Department of Entomology - OARDC (B. R. Stinner), 1 July 1989 through 30 June 1990. (Project 767620 - New)



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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$9,500.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, ARMS -- An Acoustics-Based Resuspension Measurement System for In-Place Estimates of Entrainment and Erosion from Dredged Material Disposal Sites, Department of Civil Engineering (K. W. Bedford), 1 October 1988 through 30 September 1989. (Project 766710 - Continuation)

\$1,750.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Acute Phase Reactants: Induction and Host Resistance, Department of Microbiology (R. F. Mortensen), 1 July 1989 through 30 June 1990. (Project 762354 - Continuation)

\$629.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 June 1989 through 31 July 1989. (Project 767686 - Continuation)

Equipment - Department of Energy, Aiken, South Carolina, Energy-Related Laboratory Equipment, Engineering Experiment Station (J. W. Talmagi), 7 July 1989 through 30 September 1989. (Project 767625 - New) (Approximate Dollar Value - \$91,754)

**TOTAL - FEDERAL AWARDS**

**\$6,902,130.00**

#### **State of Ohio Research Contracts/Grants**

\$853,866.63 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - C - Trade and Industrial Education Services, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767628 - Continuation)

\$722,073.00 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - E - Instructional Materials Laboratory, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767630 - Continuation)

\$643,726.86 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - D - Vocational Educational Services, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767629 - Continuation)

\$482,787.74 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - B - Vocational Research, Survey, Evaluation, and Exemplary Programs, Education Administration (J. J. Buffer), 1 July 1989 through 30 June 1990. (Project 767606 - Continuation)

\$115,725.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Acquisition of a Research Vessel, Department of Zoology (B. Vondracek), 12 September 1988 through 30 June 1991. (Project 767054 - Continuation)

\$104,344.00 - State of Ohio, Department of Education, Columbus, Ohio, Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. L. Mangum), 1 July 1989 through 30 June 1990. (Project 766869 - Continuation)

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$101,319.96 - State of Ohio, Department of Education, Columbus, Ohio, Vocational Education Contracts - A - Vocational Teacher Education, Department of Educational Studies: Humanities, Science, Technological, and Vocational (G. Jarvis), 1 July 1989 through 30 June 1990. (Project 767577 - Continuation)

\$80,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1989 through 30 June 1990. (Project 767658 - Continuation)

\$58,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Ecology and Population Dynamics of Lake Erie Fishes, Department of Zoology (B. Vondracek), 1 July 1989 through 30 June 1990. (Project 766201 - Continuation)

\$57,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey), 1 July 1989 through 30 June 1990. (Project 766925 - Continuation)

\$49,545.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Take a Break, Cooperative Extension Field Operations (C. J. Syracuse), 1 July 1989 through 30 June 1990. (Project 767604 - New)

\$31,874.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Housing as Housing: The Relationship Between Housing Factors and Community Adaptation in Three Client Groups, Department of Life Span Process (L. C. Dzurec), 1 September 1989 through 30 June 1990. (Project 767534 - Continuation)

\$23,324.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Parent Education: A Prevention, Cooperative Extension Field Operations (B. W. Chirayath), 1 July 1989 through 30 June 1990. (Project 767371 - New)

\$19,371.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Master Parenting, Cooperative Extension Field Operations (S. F. Joseph), 1 July 1989 through 30 June 1990. (Project 767585 - New)

\$17,625.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Special Parenting, Cooperative Extension Field Operations (B. J. Wurzel), 1 July 1989 through 30 June 1990. (Project 767587 - Continuation)

\$13,230.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Housing as Housing: The Relationship Between Housing Factors and Community Adaptation in Three Client Groups, Department of Life Span Process (L. C. Dzurec), 23 May 1989 through 31 August 1989. (Project 767534 - New)

\$11,245.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (B. J. Gilbert), 1 July 1989 through 30 June 1990. (Project 767584 - New)

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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### State of Ohio Research Contracts/Grants (contd)

\$10,443.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Latch Key 4-H Club, Cooperative Extension Field Operations, (R. P. Cripe), 1 July 1989 through 30 June 1990. (Project 767588 - New)

\$7,619.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Parent Support Group, Cooperative Extension Field Operations (C. J. Syracuse), 1 July 1989 through 30 June 1990. (Project 767586 - New)

\$3,500.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (C. S. Oliveri), 1 July 1989 through 30 June 1990. (Project 767583 - New)

TOTAL - STATE OF OHIO AWARDS \$3,407,119.19

#### Industrial Research Contracts/Grants

\$75,000.00 - Superconductive Components, Inc., Columbus, Ohio, Study of Superconductive Composites, Department of Physics (J. C. Garland), 1 April 1989 through 31 March 1991. (Project 767623 - New)

\$70,254.00 - Pharmakinetiks Laboratories, Inc., Baltimore, Maryland, A Long-Term Multicenter Glycemic Control Study, Department of Family Medicine (R. M. Guthrie), 1 July 1989 through 30 June 1990. (Project 767633 - New)

\$56,400.00 - Merck, Sharp, and Dohme Research Laboratories, West Point, Pennsylvania, A Triple-Blind, Randomized Parallel Study Comparing SINEMET CR (50/200) with SINEMET 25/100 in Parkinson's Disease for Patients on No Prior Levodopa Therapy, Department of Neurology (G. W. Paulson), 1 May 1989 through 30 April 1990. (Project 767645 - New)

\$54,678.00 - The Procter and Gamble Company, Cincinnati, Ohio, In Vitro Studies on the Digestibility of Olestra by Rumen Organisms and Its Effect on Rumen Fermentation Processes, Department of Dairy Science - OARDC (D. L. Palmquist), 21 June 1989 through 30 November 1989. (Project 767566 - New)

\$35,000.00 - Mobil Research and Development Corporation, Paulsboro, New Jersey, In Situ Zeolite Crystallization and Spectroscopic Characterization, Department of Chemistry (P. K. Dutta), 1 June 1989 through 31 May 1990. (Project 766931 - Continuation)

\$34,686.54 - Norwich-Eaton Pharmaceuticals, Inc., Norwich, New York, A Double-Blind, Placebo-Controlled, Multicenter Trial to Determine the Effects of the Sequential Dosing of Phosphate Didronel and Calcium in Postmenopausal Osteoporotic Women, Department of Internal Medicine (R. D. Jackson and M. B. Rao), 19 January 1989 through 31 January 1990. (Project 765531 - Continuation)

\$27,849.54 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink), ●  
1 July 1989 through 30 May 1990. (Project 767646 - Continuation)

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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

\$20,000.00 - Fidia, Abano Terme, Italy, GM1 as Potential Therapy for Neonatal Brain Damage, Department of Psychiatry and Department of Pharmacology (M. H. Neff) and Department of Pharmacology (N. H. Neff), 1 April 1989 through 31 March 1990. (Project 767663 - New)

\$8,300.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka), 1 July 1989 through 31 July 1989. (Project 766088 - Continuation)

\$3,900.00 - Septech, Wakefield, Rhode Island, A System for Realtime Automated Control of Preparative and Process HPLC Equipment, College of Pharmacy and Comprehensive Cancer Center (J. M. Jagadeesh), 20 June 1988 through 31 December 1989. (Project 766951 - Continuation)

\$2,300.00 - Caremark Plus, San Bernardino, California, Patient Education and Clinical Management Services, Department of Internal Medicine (S. P. Balcerzak), 1 October 1988 through 31 March 1989. (Project 767279 - Continuation)

\$1,800.00 - Lockheed Engineering and Science Company, Houston, Texas, Tethered Target Scattering Research, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr., E. K. Newman, and N. N. Wang), 26 May 1989 through 26 January 1991. (Project 767524 - Continuation)

Materials and Supplies - Superconductive Components, Inc., Columbus, Ohio, Fabrication of High Temperature Superconducting Films, Department of Physics (T. R. Lemberger), 1 March 1989 through 31 August 1989. (Project 767603 - New) (Approximate Dollar Value - \$5,250)

TOTAL - INDUSTRIAL AWARDS

\$ 390,168.08

#### Other Non-Federal Research Contracts/Grants

\$1,200,000.00 - Howard Hughes Medical Institute, Rockville, Maryland, Undergraduate Biological Sciences Education Initiative, Biological Sciences Administration (W. A. Jensen), 15 June 1989 through 31 August 1994. (Project 767627 - New)

\$362,150.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1989 through 30 June 1990. (Project 760113 - Continuation)

\$238,305.00 - Riverside Research Institute, New York, New York, Compact Range Analysis Research, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 1 August 1989 through 31 July 1990. (Project 767079 - Continuation)

\$105,000.00 - American Cancer Society, Atlanta, Georgia, Leukemia Cell Differentiation: Epigenetic Therapeutics, Department of Physiological Chemistry and Comprehensive Cancer Center (R. W. Trewyn), 1 July 1989 through 30 June 1990. (Project 766163 - Continuation)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$100,196.00 - Muscular Dystrophy Association, New York, New York, Collaborative Investigation of Duchenne Dystrophy, Department of Neurology (J. R. Mendell), 1 March 1989 through 28 February 1990. (Project 761360 - Continuation)

\$90,000.00 - The George Gund Foundation, Cleveland, Ohio, Development of a Sustainable Agriculture Education and Internship Program to Promote Soil and Water Conservation in Ohio, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards and B. R. Stinner), 1 July 1989 through 30 June 1992. (Project 767621 - New)

\$75,000.00 - Metropolitan Life Foundation, New York, New York, Preparing Teacher Leaders to Assist Preservice and Beginning Teachers and Recruit Minorities into Teaching, Department of Educational Policy and Leadership (K. R. Howey and N. L. Zimpher), 1 September 1989 through 31 August 1990. (Project 767665 - New)

\$45,296.00 - International Life Sciences Institute, Washington, D.C., Characterizations and Adjustments for the Effects of Dependencies in Risk Assessment, Department of Preventive Medicine (M. L. Moeschberger) and Department of Statistics (J. P. Klein), 1 June 1989 through 31 May 1990. (Project 767607 - New)

\$42,046.00 - The Juvenile Diabetes Foundation International, New York, New York, The Microvascular Choroidal Changes in Diabetes Type I and Its Repair Process Following Photo-coagulation, Department of Ophthalmology (A. J. Fryczkowski and F. H. Davidorf), 1 September 1989 through 31 August 1990. (Project 767655 - New)

\$40,000.00 - The Petroleum Research Fund, Washington, D.C., Photochemical Alkyne Activation by Dinuclear Organometallic Complexes, Department of Chemistry (B. E. Bursten), 1 September 1989 through 31 August 1991. (Project 767643 - New)

\$39,750.00 - The Juvenile Diabetes Foundation International, New York, New York, Assessment of the Mechanisms that Regulate Glomerular Mesangial Fibronectin Accumulation, Department of Internal Medicine (F. G. Cosio), 1 September 1989 through 31 August 1990. (Project 767671 - New)

\$36,256.00 - Boston University, Boston, Massachusetts, Principles for Machine/Human Compatibility in Manufacturing Systems, Department of Industrial and Systems Engineering (A. B. Bishop), 1 July 1989 through 30 June 1990. (Project 766000 - Continuation)

\$35,000.00 - The National Council for Soviet and East European Research, Washington, D.C., Disadvantaged Groups and Backward Regions in the Soviet Union, Department of Geography (Y. Medvedkov) and Merzhon Center for Education (O. Medvedkov), 1 July 1989 through 30 June 1990. (Project 766762 - Continuation)

\$33,000.00 - American Heart Association, Dallas, Texas, Hydraulic Load in Congestive Heart Failure (CHF): Response to Vasodilator, Department of Internal Medicine (P. F. Binkley), 1 July 1989 through 30 June 1990. (Project 767638 - Continuation)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$30,000.00 - Parker B. Francis Foundation, Hanover, New Hampshire, Parker B. Francis Fellowship in Pulmonary Research, Department of Internal Medicine (J. E. Gadek and J. N. Allen), 1 July 1989 through 30 June 1990. (Project 767612 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Molecular Anatomy of Actin Assemblies in Smooth Muscle Cells, Department of Anatomy (A. R. Strauch), 1 July 1989 through 30 June 1990. (Project 767579 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, The Observation of Low-Density Lipoproteins (LDL) Metabolism in Vascular Endothelial Cells Exposed to Fluid Mechanical Forces, Department of Surgery (J. F. Cornhill), 1 July 1989 through 30 June 1990. (Project 767578 - New)

\$19,993.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Mechanisms of Vagal Reflex Control of Circulation During Hypovolemia, Department of Veterinary Clinical Sciences (W. W. Muir III and E. R. Schertel), 1 July 1989 through 30 June 1990. (Project 767654 - New)

\$19,900.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Antifibrillatory Effects of Inhalation Anesthetics Assessed Noninvasively Using Fluctuations in T-Wave Morphology, Department of Veterinary Clinical Sciences (W. W. Muir III), 1 July 1989 through 30 June 1990. (Project 767649 - New)

\$19,000.00 - American Lung Association of Ohio, Columbus, Ohio, American Lung Association Research Training Fellowship, Department of Internal Medicine (W. B. Davis and J. B. Fagan), 1 July 1989 through 30 June 1990. Project 767600 - New)

\$18,716.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Mechanisms of Thrombosis with Lupus Anti-coagulants: Effect on Tissue Factor, Department of Pathology (J. T. Brandt), 1 July 1989 through 30 June 1990. (Project 767632 - New)

\$18,000.00 - The Petroleum Research Fund, Washington, D.C., Cluster Ion Source Development for High Resolution Infrared Spectroscopy, Department of Chemistry (J. V. Coe), 1 September 1989 through 31 August 1991. (Project 767641 - New)

\$18,000.00 - The Petroleum Research Fund, Washington, D.C., Chemistry of Strained Ring Compounds, Department of Chemistry (V. H. Rawal), 1 September 1989 through 31 August 1991. (Project 767642 - New)

\$17,400.00 - American Lung Association of Ohio, Columbus, Ohio, American Lung Association Research Training Fellowship, Department of Internal Medicine (P. M. Dorinsky), 1 July 1989 through 30 June 1990. (Project 767626 - New)

\$16,344.00 - Michigan State University, East Lansing, Michigan, Current Economic Conditions and Future Market Opportunities for Aquaculture in the North Central Region, Department of Natural Resources - OARDC and School of Natural Resources (J. A. Maxwell), 1 May 1989 through 30 April 1990. (Project 767546 - New)

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Combination Immuno-Chemotherapy for Malignant Glioma, Department of Pathology (R. F. Barth), 1 July 1989 through 30 June 1990. (Project 767684 - New)

\$13,856.00 - Michigan State University, East Lansing, Michigan, Policy Impediments and Opportunities for Expanded Aquaculture in the North Central Region, Department of Natural Resources - OARDC and School of Natural Resources (D. W. Floyd), 1 May 1989 through 30 April 1990. (Project 767546 - New)

\$10,680.00 - Texas A & M University, College Station, Texas, Radiolarian and Diatom Biostratigraphy and Paleooceanography of Sulu and Celebes, ODP Leg 124, Department of Geology and Mineralogy (P. N. Webb), 1 June 1989 through 1 October 1990. (Project 767668 - New)

\$10,000.00 - Central Ohio Diabetes Association, Columbus, Ohio, Metabolic and Energy Assessment in Relatives of Black Noninsulin-Dependent Diabetes Mellitus (NIDDM) Patients, Department of Internal Medicine (K. Osei), 1 July 1989 through 30 June 1990. (Project 767652 - New)

\$10,000.00 - University of California, Livermore, California, A Study for a Deployable Truss Structure, Department of Electrical Engineering (U. Ozguner), 12 July 1989 through 1 April 1990. (Project 767615 - New)

\$9,293.00 - National Institute for Dispute Resolution, Washington, D.C., The Development of an Artificial Intelligence Model of Mediation of Conflict, Business Administration (R. J. Lewicki), Mershon Center for Education (T. W. Milburn), and Department of Computer and Information Science (J. R. Josephson), 15 June 1989 through 30 September 1990. (Project 767609 - New)

\$7,600.00 - Central Ohio Diabetes Association, Columbus, Ohio, Influence of Dietary Fish Oils on the Plasma Lipids and Platelet Function of Diabetic Rabbits, Department of Physiological Chemistry (R. Panganamala), 1 July 1989 through 30 June 1990. (Project 767660 - New)

\$4,500.00 - Bedding Plant Foundation, Inc., Lansing, Michigan, Evaluation of an Air-Assisted Electrostatic Sprayer, Using Biorational and Conventional Insecticides, to Control Major Insect and Mite Pests of Greenhouse Ornamental Plants, Department of Entomology - OARDC (R. K. Lindquist), 1 July 1989 through 30 June 1990. (Project 767659 - New)

\$3,100.00 - Central Ohio Diabetes Association, Columbus, Ohio, The Effect of Glycosylated Fibronectin on the Regulation of Human Mesangial Cell Fibronectin Synthesis, Department of Internal Medicine (S. Nahman), 1 April 1989 through 31 March 1990. (Project 767651 - New)

\$1,260.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 December 1985 through 31 December 1995. (Project 765208 - Continuation)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$2,744,641.00**

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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### ENGINEERING EXPERIMENT STATION

#### Industrial and Other Sponsored Research and Development

\$53,492.00 from IBM, Endicott, New York, for "Computer-Aided Statistical Process Control," under the direction of the Department of Industrial and Systems Engineering for the period June 15, 1989 through December 31, 1989. (529807)

\$15,000.00 from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529202)

\$12,531.00 from 21 sponsors of 28 development projects in two research areas of the College of Engineering.

\$10,477.00 in additional funding from Westinghouse Electric Company, Pittsburgh, PA, for "Terminal Box Evaluation," under the direction of the Department of Mechanical Engineering for the period May 11, 1988 through December 31, 1989. (312458, Ext. 1)

\$10,000.00 from various industry for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$8,000.00 from various industry for Affiliate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$8,000.00 in additional funding from Ford Motor Company, Dearborn, Michigan, for "Noise and Transmission Error Testing," under the direction of the Department of Mechanical Engineering for the period March 1, 1988 through December 31, 1989. (312453, Ext. 1)

\$(35,000.00) reduction in funding from Edison Welding Institute, Columbus, Ohio. Project ("Fracture Mechanics Analysis of Thermoplastics Welds) closed as of June 30, 1989. (529335)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$ 82,500.00

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

#### Establishment of Named Funds

##### The Paul and Lucy Dale Kent Cancer Research Endowment Fund

The Paul and Lucy Dale Kent Cancer Research Endowment Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Paul and Lucy Dale Kent of Granville, Ohio.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support cancer research in the Arthur G. James Cancer Hospital and Research Institute as approved by the Director of the Arthur G. James Cancer Hospital and Research Institute and the Vice President for Health Services.



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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Paul and Lucy Dale Kent Cancer Research Endowment Fund (contd)**

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Director of the Arthur G. James Cancer Hospital and Research Institute and the Vice President for Health Services in order to carry out the desire of the donors.

##### **The Marshall McDonald Scholarship Fund**

The Marshall McDonald Scholarship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Marshall McDonald of Palo Alto, California.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students in Beekeeping Technology at the Agricultural Technical Institute. Recipients will be selected by a committee consisting of the Beekeeping Technology Coordinator, the Agricultural Business Division Chairperson, and the Financial Aid Coordinator, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University students in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

##### **The Floyd B. Mellor Scholarship Fund**

The Floyd B. Mellor Scholarship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Floyd B. Mellor, Killbuck, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to worthy students who are graduate associates in beef cattle research at the Ohio Agricultural Research and Development Center, Wooster, Ohio. Scholarship recipients shall be selected by the chairperson of the Department of Animal Science and the chairperson of the Graduate Studies Committee, in consultation with the University Committee on Student Financial Aid.

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Floyd B. Mellor Scholarship Fund (contd)**

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

##### **The John Weller Wuichet, Jr., and Norma Johns Wuichet Endowment Fund**

The John Weller Wuichet, Jr., and Norma Johns Wuichet Endowment Fund was established August 23, 1989 by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John Weller Wuichet, Jr. (B.S.Bus.Adm. '34) and his wife, Norma Johns Wuichet (B.S.Ed. '34) of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to assist selected departments or divisions in the College of The Arts in recruiting and retaining outstanding undergraduate and graduate students. Said income may be used for recruitment materials and events; recruitment/audition travel expenses required to bring outstanding prospective students to campus or to send faculty members to those students; student prizes or awards; and student travel grants to conferences, exhibits, or festivals for the purpose of presenting papers, performing, or exhibiting. Funds may also be used to provide undergraduate scholarships, graduate associateships, and fellowships.

The annual income shall be made available to the selected departments and divisions of the College of The Arts on an annual rotating basis in the following order commencing in the first year with Art, and following in alphabetical order in each succeeding year with Art Education, Dance, Music Education, and Theatre.

The specific activity selected for fund income use and, if necessary, the criteria required to select students are at the discretion of the respective department or division chairperson with appropriate consultation with faculty and approval of the Dean of the College of The Arts. Where financial aid (i.e., scholarships, fellowships, and associateships) is involved, decisions shall be made in consultation with the University Committee on Student Financial Aid. Financial need is not a necessary criterion; quality of student is.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department/division chairperson, or program administrative officer in order to carry out the desire of the donors.

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Chhotey Lal and Mohra Devi Rustagi Memorial Lectureship Fund**

The Chhotey Lal and Mohra Devi Rustagi Memorial Lectureship Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Jagdish S. Rustagi, Chairperson, Department of Statistics, in memory of his parents, Chhotey Lal and Mohra Devi Rustagi.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of Statistics for honoraria and expenses incurred by visiting lecturer(s) to the Department of Statistics for giving a Chhotey Lal and Mohra Devi Rustagi Memorial Lecture each year. The expenditures of all income will be approved by the Chairperson of the Department of Statistics.

It is the desire of the donor that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

#### **Change in Name and Description of Named Fund**

##### **Bob Evans Farms Inc., Hospitality Research Fund**

The Hospitality Management Research Fund was established November 4, 1988, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Bob Evans Farms, Inc. The name and description were revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support faculty and graduate student research in the area of hospitality management in the Department of Human Nutrition and Food Management, College of Human Ecology, as authorized by the department chairperson with advice of the faculty.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then directly responsible for Hospitality Management Programs or the Dean of the College of Human Ecology.

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Change in Description of Named Funds**

##### **Arthur E. Baggs Memorial Fund**

The Arthur E. Baggs Memorial Fund was established February 14, 1961, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund in memory of Arthur E. Baggs (B.S.M.E. '39). The description was changed May 4, 1989, and was further revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a scholarship to an outstanding undergraduate student with interest in pursuing a major in the ceramic arts with the equivalent of high school chemistry as a prerequisite. Suggested studies are to include investigation of basic vessel tradition of glaze chemistry, craftsmanship, and aesthetics. The selection of the recipient will be made by the ceramic faculty in consultation with the University Committee on Student Financial Aid. It is the donors' expressed desire to fund activities related to one of the following curricula in order of preference: industrial design, music, photography and cinema, art history.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

##### **The Baker & Hostetler Law Library and Building Fund**

The Mildred S. and Noel F. George Fund was established September 3, 1982, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the Kaplan-Halpert Foundation of Cleveland, Ohio, through the generosity of Noel F. George ('32 Law), a trustee of the Foundation, on the occasion of his 50th anniversary of graduation from the College of Law. The name was changed to The Noel F. George - Baker & Hostetler Law Library Fund on February 7, 1986. The name was further changed to The Baker & Hostetler Law Library and Building Fund on June 3, 1988, and the description was further revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used at the discretion of the Dean of the College of Law for the activities of the Law Library in the College of Law and/or for the library addition to the Law Building. The Dean of the College of Law may, at his discretion, invade the principal for the library addition, if this is necessary to complete funding of the building project.

August 23, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Change in Description of Named Funds (contd)**

##### **The Baker & Hostetler Law Library and Building Fund (contd)**

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for legal education.

##### **The H. P. Wolfe Chair in Accounting Fund**

The H. P. Wolfe Chair in Accounting Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Wolfe Associates, Inc. The description was revised August 23, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to support the search for and maintenance of the H. P. Wolfe Chair in Accounting. When the H. P. Wolfe Chaired Professor has been appointed, the annual income shall be used to provide salary and program support in the Academic Faculty of Accounting and Management Information Systems of the College of Business. Appointment to the H. P. Wolfe Chair is to be recommended by the Dean of the College of Business to the Provost and approved by the Board of Trustees. The holder will report annually to the donor's designees on the goals, objectives, and plans for the chair in the upcoming academic year. These yearly reports will describe also the use of all fund earnings, past and projected, over the same two-year period.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Business, in order to carry out the desire of the donor.

### **THE OHIO STATE UNIVERSITY FOUNDATION**

#### **Approval of Description and Establishment of Fund**

##### **The Robert K. Fox Professorship in Chemistry Fund**

The Robert K. Fox Professorship in Chemistry Fund was established August 23, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed professorship with gifts designated for The Ohio State University College of Mathematical and Physical Sciences.

Income provided by the Foundation shall be used to enhance the salary and support the work of the Robert K. Fox Professor of Chemistry.

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August 23, 1989 meeting, Board of Trustees

**Employment of Architect/Engineer and  
Request for Construction Bids**

Background

Ohio Stadium Turf Replacement

This project will remove the existing artificial playing surface and subbase in Ohio Stadium and install a grass playing surface, associated drainage system, and subbase.

Funds for this project are available from the Athletic Department. Construction costs are estimated at \$950,000 and the total estimated project cost is \$1,100,000.

North Athletic Complex Playing Fields

This project will create two soccer/lacrosse fields and two baseball fields with appropriate drainage west and south of the Woody Hayes Athletic Center.

Funds for this project are available from the Athletic Department. Construction costs are estimated at \$800,000 and the total estimated project cost is \$1,000,000.

(See Appendix X for maps, page 241.)

**EMPLOYMENT OF ARCHITECT/ENGINEER AND  
REQUEST CONSTRUCTION BIDS**

Resolution No. 90-26

**OHIO STADIUM TURF REPLACEMENT  
NORTH ATHLETIC COMPLEX PLAYING FIELDS**

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for Ohio Stadium Turf Replacement and North Athletic Complex Playing Fields projects.

WHEREAS the Ohio Stadium Turf Replacement project will remove the existing artificial playing surface and subbase and replace it with a new drainage system, subbase, and grass playing surface; and

WHEREAS the total estimated cost of this project is \$1,100,000, with the estimated construction cost being \$950,000, with funding provided from the Athletic Department; and

WHEREAS the North Athletic Complex Playing Fields project will create two soccer/lacrosse fields and two baseball fields west and south of the Woody Hayes Athletic Center; and

WHEREAS the total estimated cost of this project is \$1,000,000, with the estimated construction cost being \$800,000, with funding provided from the Athletic Department:

NOW THEREFORE

August 23, 1989 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEER AND  
REQUEST CONSTRUCTION BIDS (contd)**

**OHIO STADIUM TURF REPLACEMENT  
NORTH ATHLETIC COMPLEX PLAYING FIELDS (contd)**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, and that the fees for these services be negotiated between the firms selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Report of Award of Contracts and  
Establishment of Contingency Funds**

Background

(See Appendix XI for a complete tabulation of bids on all projects and locator maps, page 245.)  
Amounts shown with an \* include accepted alternates.)

**Site Renovation and  
Bridge and Street Improvements, Phase I**

The Site Renovation project will renovate the site bounded by Woodruff Avenue on the north, High Street on the east, College Road on the west and 17th Avenue on the south by installing plants, walls, plazas, planters, walks, lighting and drainage systems. Phase I of the Bridge and Street Improvements project will close 17th Avenue and convert it to a pedestrian mall and replace existing concrete walks on High Street from Woodruff to West 11th Avenue, including relocation of bus shelters and installation of new plantings and site furniture. Funds are provided from State capital appropriations (House Bill 810) and University funds. The estimated completion date is November 1989. These two projects were bid together as a package. The contracts awarded are as follows:

General Contract:	Dugan and Meyers, Cincinnati, Ohio
Amount:	\$648,700.00
Estimate:	\$765,800.00
Electric Contract:	Clagget Electric, Columbus, Ohio
Amount:	\$ 84,234.00
Estimate:	\$ 95,000.00
Total All Contracts:	\$732,934.00

August 23, 1989 meeting, Board of Trustees

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

**Site Renovation and  
Bridge and Street Improvements, Phase I (contd)**

Contingency Allowance:               \$ 58,634.88 (8% of construction cost)

Total Project Cost:                 \$793,600.00

Campbell Hall Laboratory Remodeling

This project will remodel a series of existing teaching and research laboratories used by the College of Human Ecology. Funds are provided from State capital appropriations (House Bills 870 and 810) and University funds. The estimated completion date is July 1990. The contracts awarded are as follows:

General Contract:                 B. S. Contractors, Inc. , Columbus, Ohio

Amount:                             \$308,130.00 \*

Estimate:                          \$367,494.00 \*

Plumbing Contract:               Stevens Painton Corp. , Hilliard, Ohio

Amount:                             \$166,550.00 \*

Estimate:                          \$185,720.00 \*

HVAC Contract:                   Farber Corporation, Columbus, Ohio

Amount:                             \$185,200.00 \* +

Estimate:                          \$166,390.00 \*

Electric Contract:                Buckeye Electric Co. , Dayton, Ohio

Amount:                             \$128,309.00 \*

Estimate:                          \$153,205.00 \*

Total All Contracts:               \$788,189.00 \*

Contingency Allowance:           \$ 44,617.64  
(5.7% of construction cost)

Total Project Cost:               \$1,009,834.00

+ HVAC contract is in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.



August 23, 1989 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 90-27

**SITE RENOVATION  
BRIDGE AND STREET IMPROVEMENTS, PHASE I  
CAMPBELL HALL LABORATORY REMODELING**

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to the lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Site Renovation and Bridge and Street Improvements, Phase I; and

WHEREAS the University determined that better bids would be received if these two project were bid as one; and

WHEREAS resolutions adopted by the Board of Trustees on July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids are received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Campbell Hall Laboratory Remodeling project:

**NOW THEREFORE**

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Site Renovation and Bridge and Street Improvements, Phase I and the Campbell Hall Laboratory Remodeling projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Ratification of Request For Construction Bids and  
Acceptance of the Report of Award of Contracts and  
Establishment of Contingency Funds**

Background

(See Appendix XII for a complete tabulation of bids on all projects and locator map, page 253.)  
Amounts shown with an \* include accepted alternates.)

**College Road Storm Sewer Extension**

Heavy rains during the period of July 24-28 created serious storm water runoff and flooding in the College Road area of the central campus. Storm water backed up in the Wexner Center for the

August 23, 1989 meeting, Board of Trustees

**Ratification of Request For Construction Bids and  
Acceptance of the Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background

College Road Storm Sewer Extension (contd)

recurrence of such flooding is by completing a portion of the sewer separation work for Mershon Auditorium, Weigel Hall, and the Wexner Center that was identified in the master sewer separation study undertaken in 1986 by the City of Columbus with assistance from the University.

Because of the need to complete this sewer expansion project prior to the opening of the Wexner Center and prior to the start of Autumn Quarter to minimize disruption on College Road, plans and specifications for this emergency project were developed by the University Architect's Office and the Department of Physical Facilities, and the project was bid on August 15, with an expected completion date of September 15.

The project will install a new 30-inch storm sewer from an existing manhole near the southwest corner of the Wexner Center to run in a southerly direction in the College Road right-of-way to an existing 93-inch interceptor sewer located midway between 12th Avenue and Hagerty Drive. This project also will extend an existing 20-inch water main from College Road and 17th Avenue to College Road and 12th Avenue. The total project cost is \$249,468.00; funding is provided from University funds.

The contract awarded is as follows:

General Contract:	Concrete Construction, Columbus, Ohio
Amount:	\$216,000.00*
Estimate:	\$350,000.00*
Contingency Allowance:	\$ 10,800.00
Total Project Cost:	\$249,468.00*

**RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND  
ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 90-28

**COLLEGE ROAD STORM SEWER EXTENSION**

Synopsis: The Fiscal Affairs Committee recommended ratification of the request for construction bids and acceptance of the report of award of contracts for the College Road Storm Sewer Extension project.

WHEREAS recent heavy rains created serious storm water runoff and flooding in the College Road area of the central campus; and

WHEREAS the 1986 City of Columbus master sewer separation plan included storm and sanitary sewer separation work in this area to prevent recurrence of such flooding; and

August 23, 1989 meeting, Board of Trustees

**RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND  
ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**COLLEGE ROAD STORM SEWER EXTENSION (contd)**

WHEREAS the project will install a new 30-inch storm sewer to serve this area; and

WHEREAS the project was bid as an emergency so that it could be completed prior to the opening of the Wexner Center and prior to the start of Autumn Quarter:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees hereby ratifies and approves action taken by the President and/or Vice President for Business and Administration to request construction bids and award contracts on the College Road Storm Sewer Expansion project in accordance with established University procedures and hereby accepts the report of award of contracts for this project.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT  
OHIO POWER COMPANY**

Resolution No. 90-29

Synopsis: The Fiscal Affairs Committee recommended the authorization to grant an electric easement to The Ohio Power Company is requested.

WHEREAS the Ohio Power Company has requested a three-year easement consisting of a strip of land approximately 10 feet in width and approximately 368 feet in length for the installation of temporary parking lot lights on the east side of Adena Hall at the Newark Regional Campus; and

WHEREAS the electric service will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XIII for map, page 257.)

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August 23, 1989 meeting, Board of Trustees

## **Beechwold Medical Center, Columbus, Ohio**

### Background

#### Location and Description

The property consists of approximately 1.5 acres located at 4808 North High Street, Columbus, Ohio. The site includes a two-story medical center building of brick construction built in 1952. The building is in excellent condition and contains 4,747 square feet of usable space.

#### Use of the Property

The University wishes to enter into a lease of this property for the purpose of fulfilling the teaching, research, and service missions of University Hospitals by providing an additional site for primary medical care.

#### Valuation and Terms of the Lease

The University proposes to lease the site from Beechwold Medical Center, Inc., for an initial term of five years, with five one-year renewal options. Based on an examination of the local market by the University's Office of Property Management in May 1988, fair market rent for this facility is in the range of \$9.00 to \$10.50 per square foot on a triple net basis. The proposed rental rate would be within this range. The equipment was valued at \$88,910 by A-R-M Appraisal Services in December 1988, and would be purchased for this amount. The receivables would be purchased at 93% of the valuation established by Ernst & Whinney as of the date of purchase. The estimated valuation was \$225,000 in June 1988.

#### Terms of the Management Agreement

The University would cause to be formed a professional corporation. Manuel Tzagournis, M.D., in his official capacity as Dean of the College of Medicine, would own the single share of the corporation and would then transfer the share in trust to himself in his official capacity as Dean to be held for the benefit of the University.

The University would enter into a service agreement with the professional corporation for physician services, with the University serving as business manager. The professional corporation would employ physicians through a contracting physicians agreement. The term of the agreement would be three years, renewable for two years, and thereafter year to year. Consideration of approximately \$500,000 would be paid in the first three years with a base salary component escalating six percent a year and the balance depending on private patient care revenues. A non-competition clause would be included.

(See Appendix XIV for map, page 259.)

## **BEECHWOLD MEDICAL CENTER, COLUMBUS, OHIO**

Resolution No. 90-30

Synopsis: The Fiscal Affairs Committee recommended authorization to lease real property, purchase assets, manage and enter into an agreement with a professional corporation to provide patient care at the Beechwold Medical Center; and authorization for Manuel Tzagournis, M.D., Dean of the College of Medicine, to form a professional corporation and enter into a trust agreement for the benefit of The Ohio State University.

August 23, 1989 meeting, Board of Trustees

**BEECHWOLD MEDICAL CENTER, COLUMBUS, OHIO (contd)**

WHEREAS The Ohio State University Hospitals Board has determined that additional sites for primary patient care are needed to fulfill the teaching, research and service missions of The Ohio State University Hospitals; and

WHEREAS the property known as the Beechwold Medical Center, located at 4808 North High Street in Columbus, Ohio, is available for lease and the physician group practicing at the site is willing to enter into an agreement to provide physician services with a professional corporation to be managed by The Ohio State University; and

WHEREAS the appropriate University officers and the Executive Committee of the Hospitals Board at their January 26, 1989 meeting have determined that such an arrangement is in the best interests of the University:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or the Vice President for Business and Administration, in consultation with the Vice President for Health Services and with the advice of legal counsel, be authorized to negotiate the terms of and enter into such agreements as are necessary to lease the Beechwold Medial Center, acquire assets, provide physician services there through a professional corporation and enter into an agreement to manage the Center; and

BE IT FURTHER RESOLVED, That Manuel Tzagournis, Dean of the College of Medicine, be authorized and directed to form a professional corporation, to be its sole shareholder, and to transfer its shares to himself as trustee for the benefit of the University, all in his official capacity as Dean. In carrying out this mandate the Dean, acting as part of his official responsibility to The Ohio State University, is entitled to any insurance or indemnity protection to which officers and employees of the University now are or hereafter may be entitled; and

BE IT FURTHER RESOLVED, That this resolution shall constitute formal direction to the Dean of the College of Medicine to cause the professional corporation to be formed, to subscribe to and hold its shares, and to transfer the same to himself as Dean in his official capacity to be held for the benefit of the College of Medicine of The Ohio State University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EXPRESSION OF APPRECIATION**

Resolution No. 90-31

WHEREAS Chancellor William B. Coulter of the Ohio Board of Regents has expressed his intention to retire effective December 31, 1989; and

WHEREAS Chancellor Coulter has had a long and distinguished career with the Ohio Board of Regents, beginning with its founding in 1963; and

WHEREAS he has served the State of Ohio, the colleges and universities in Ohio and The Ohio State University well in his work with the Ohio Board of Regents and the Inter-University Council; and

August 23, 1989 meeting, Board of Trustees

**EXPRESSION OF APPRECIATION (contd)**

WHEREAS The Ohio State University is indebted to Chancellor Coulter's commitment to accessible higher education and his leadership with the Selective Excellence programs:

NOW THEREFORE

BE IT RESOLVED, That The Ohio State University Board of Trustees expresses its appreciation to Chancellor Coulter for his dedication to education in Ohio and wishes him and his wife, Virginia, great success with all future endeavors.

Mr. Berry:

Very good. I think it is very deserved and we will miss him.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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Thereupon the Board adjourned to meet Friday, October 6, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

John W. Berry  
Chairman

APPENDIX VI

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
July 21, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees August 23, 1989  
(See page 143)



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
July 21, 1989**

**Endowment Composition**

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>07-21-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 36,539,399	14.45%
Nicholas-Applegate	11,475,663	4.63	12,586,575	4.98
Siebel	32,173,227	12.98	33,111,826	13.10
Mutual Fund	13,552,018	5.47	14,106,335	5.58
OSU Managed	<u>80,168,113</u>	<u>32.35</u>	<u>76,814,379</u>	<u>30.39</u>
<b>Total Equities</b>	<b>\$171,998,341</b>	<b>69.41%</b>	<b>\$173,158,514</b>	<b>68.50%</b>
<b>Fixed Income:</b>				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,707,578	9.38%
Cambridge	951,048	0.38	945,535	0.37
Duff & Phelps	10,243,208	4.13	10,299,005	4.08
STW Fixed Income	24,150,270	9.75	24,013,830	9.50
OSU - GNMA	10,144,887	4.10	10,186,984	4.03
OSU Managed	<u>6,465,211</u>	<u>2.61</u>	<u>10,464,467</u>	<u>4.14</u>
<b>Total Fixed Income</b>	<b>\$ 75,796,204</b>	<b>30.59%</b>	<b>\$ 79,617,399</b>	<b>31.50%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$247,794,545</b>	<b><u>100.00%</u></b>	<b>\$252,775,913</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 39,503,844</b>		<b>\$ 39,502,368</b>	
<b>Total Portfolio</b>	<b><u>\$287,298,389</u></b>		<b><u>\$292,278,281</u></b>	



# Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value July '88 to July '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.56% (1)	17.35%	20.91%
Common Stock (Nicholas-Applegate)	1.64 (2)	21.77	23.41
Common Stock (Siebel)	4.79 (3)	18.97	23.76
Mutual Fund	2.92	19.75	22.67
Common Stock (OSU Managed)	5.53 (4)	12.43	17.96
Standard & Poor's Index	3.65	23.47	27.12
<b>Real Estate:</b>	4.37%	-0- (11)	4.37%

## **Fixed Income:**

Bonds (Boatmen's Trust)	8.34% (5)	11.26%	19.60%
Bonds (Cambridge)	8.21 (6)	4.03	12.24
Bonds (Duff & Phelps)	8.15 (7)	4.23	12.38
Bonds (STW Fixed Income)	9.16 (8)	10.45	19.61
Bonds (OSU - GNMA)	9.89 (9)	3.05	12.94
Bonds (OSU Managed)	8.73 (10)	(1.80)	6.93
Merrill Lynch Corporate/ Government Master	8.75	5.36	14.11

- (1) 0.0% of Chicago Corp. portfolio is made up of cash and cash equivalents.
- (2) 1.1% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.3%.
- (3) 44.1% of Siebel portfolio is made up of cash and cash equivalents which earn 9.0%.
- (4) 61.1% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.0%.
- (5) 10.5% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 8.9%.
- (6) 100.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.3%.
- (7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.3%.
- (8) 0.9% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.3%.
- (9) 1.4% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.3%.
- (10) 95.6% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.0%.
- (11) Not able to compare 12 months.
- (12) Endowment Fund Income through July 31, 1989, totaled approximately \$1,794,000.
- (13) Income from University Cash Investments through July 31, 1989, totaled approximately \$823,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>07-21-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$111,494,308	38.15%
Principal Additions	17,350	Fixed Income	65,688,789	22.47
Principal Withdrawals	(25,000)	Real Estate	39,395,000	13.48
Change in Market Value	<u>4,987,542</u>	Cash	<u>75,700,184</u>	<u>25.90</u>
<b>Current Market Value</b>	<b><u>\$292,278,281</u></b>	<b>Total Portfolio</b>	<b><u>\$292,278,281</u></b>	<b><u>100.00%</u></b>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
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No Activity

Real Estate

Sale

Total Investment

No Activity

**The Ohio State University  
Common & Preferred Stock**

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
6,000	Schulman (A), Inc.	Chicago	28.7500	\$ 172,500.00	\$ 2,880.00
6,900	Banc One Corp.	Nicholas-			
		Applegate	35.9232	248,283.90	7,176.00
6,800	Kemper Corp.	"	39.3050	267,682.00	5,712.00
10,000	Liz Claiborne, Inc.	"	24.2107	242,107.50	1,700.00
1,800	Transco Energy Co.	"	48.0601	86,616.20	2,448.00
100	Motorola, Inc.*	OSU	55.6250	5,562.50	64.00
72,400	Beverly Enterprises, Inc.	Siebel	8.3355	<u>607,832.60</u>	<u>0.00</u>
				<u>\$1,630,584.70</u>	<u>\$19,980.00</u>

\* Gift.

**The Ohio State University  
Common & Preferred Stock**

**Common & Preferred Stock**

**Sales Made During Period**

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
2,400	New England Business Service, Inc.	Chicago	20.0000	\$ 48,000.00	\$ (2,400.00)
6,500	Applied Biosystems, Inc.	Nicholas-Applegate	31.9250	207,512.50	(27,908.50)
13,600	Computer Associates International, Inc.	"	17.6663	239,438.13	38,206.33
2,100	MCI Communications Corp.	"	38.6250	81,112.50	49,913.84
3,300	Merck & Co., Inc.	"	67.0679	221,118.61	5,968.51
3,000	Tandem Computers, Inc.	"	18.0500	53,968.19	(4,848.03)
87	Allied Signal, Inc.*	OSU	35.8750	3,092.31	9.25
765	Evergreen Total Return Fund*	"	18.8800	14,441.29	968.46
48	Insured MST Municipal Bond Sec. Trust Fund*	"	569.5800	27,339.84	1,684.03
1,198	Ohio Banc Corp.*	"	42.2500	50,615.50	6,888.50
5,277	Standard Products Co.*	"	29.1250	153,437.50	74.69
100	Union Pacific Corp.*	"	72.7500	7,239.75	1,110.55
3,500	United Airlines Corp.	Siebel	146.3300	<u>511,892.92</u>	<u>91,829.92</u>
				<u>\$1,619,209.04</u>	<u>\$161,497.55</u>

\* Gift.

The Ohio State University  
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
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No Activity

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
840,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	108.7187	\$ <u>913,237.50</u>	\$ <u>5,250.00</u>
				<u>\$913,237.50</u>	<u>\$5,250.00</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.46%	1962	\$ 435,204	\$ 1,400,000	06/89
Building and 5.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/89
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/89
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,693	2,300,000	06/89
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/89
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	31,333 (1)	31,333	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	76,035 (1)	76,035	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/89
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/89
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/89
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/89
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	950,000	05/88
17.92 acres of land on Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,338,309</u>	<u>\$39,502,368</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

MEMORANDUM

Subject: Proxy Solicitations  
Date: July 31, 1989  
From: James L. Nichols, Treasurer  
To: Board of Trustees, The Ohio State University

During the month of July 1989, the University voted ten proxies.

Management proposals were as follows:

- 1) Election of the Board of Directors;
- 2) Approval of a 1989 stock option plan for non-employee directors;
- 3) Ratification of independent auditors;
- 4) To fix the number of Directors;
- 5) Increase authorized common stock;
- 6) Increase the number of shares of common stock available for stock option plans;
- 7) Increase authorized serial preferred stock;
- 8) Approval to reincorporate from Delaware to Ohio;
- 9) Approval of a 1989 stock incentive plan and the reservation of shares for a restricted rights plan;
- 10) Amendment to an existing combined stock option plan;
- 11) Ratification of the distribution of all shares of a new corporation that was formerly a division of the company;
- 12) Approval of a 1989 employee incentive plan.

Shareholder proposals were as follows:

- 1) Require that the independent auditors be submitted for shareholder approval.

The University voted with Management on all issues and against the shareholder proposal, which Management also opposed.



The ten corporations were:

- 1) Bob Evans Farms, Incorporated
- 2) Carter-Wallace
- 3) Community Psychiatric Centers
- 4) Computer Associates International Incorporated
- 5) Computer Sciences Corporation
- 6) The J.M. Smucker Company
- 7) Loral Corporation
- 8) NCH Corporation
- 9) Webster Industries Incorporated
- 10) Wetterau Incorporated

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APPENDIX VII

STATUS REPORT ON THE OHIO STATE UNIVERSITY ENDOWMENT FUNDS  
AND THE OHIO STATE UNIVERSITY FOUNDATION ENDOWMENT FUNDS  
June 30, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees August 23, 1989  
(See page 143)

STATUS OF CHAIR FUNDS  
THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
As of June 30, 1989

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Chair</u>
Nov. 1, 1985	Anderson's Chair in Agricultural Marketing, Trade and Policy	Agriculture	\$ 750,000	\$ 978,969	\$1,403,181	Luther G. Tweeten
Feb. 3, 1978	Bailey Chair in Energy Conversion	Engineering	600,000	594,933	1,382,965	Robert H. Essenhigh
May 5, 1988	Cramblett Chair in Medicine	Medicine	600,000	700,000	771,400	Vacant
Dec. 15, 1976	Davis Chair in American Free Enterprise	Business	600,000	671,704	1,449,517	Donald L. Sexton
June 8, 1978	Davis Chair in Medicine	Medicine	750,000	1,047,544	1,240,549	Donald L. Fry
Sept. 13, 1963	Doan Chair of Medicine	Medicine	(1)	187,396	429,339	Earl N. Metz
Oct. 12, 1966	Fawcett Chair in Educational Administration	Education	(1)	383,238	773,021	Vacant
Mar. 3, 1978	Galbreath Chair in Real Estate	Business	600,000	1,074,587	2,431,765	Patric H. Hendershott
July 11, 1980	Haas Chair in Food Industries	Agriculture	750,000	1,258,876	1,900,357	Vacant
June 7, 1985	Ismke Chair in Cancer Research	Medicine	1,250,000	1,250,000	1,536,387	Vacant
Sept. 9, 1977	Kiplinger Chair in Floriculture	Agriculture	600,000	874,548	1,026,185	Vacant
Feb. 3, 1971	Kiplinger Chair in Public Affairs Reporting	Soc./Behav. Science	(1)	1,122,805	2,104,064	John F. Wicklein
Nov. 7, 1975	Klassen Chair of Thoracic Surgery	Medicine	600,000	582,434	1,353,341	P. David Myerowitz
Sept. 7, 1973	Kurtz Chair in Endocrinology	Medicine	600,000	193,147	370,240	Samual Cataland
Sept. 6, 1974	Kurtz Chair in Neurology	Medicine	600,000	173,157	333,045	George W. Paulson
Feb. 1, 1980	McConnell Chair in Aviation	Engineering	750,000	1,018,248	1,212,393	Vacant
May 7, 1971	Melling Chair of Obstetrics & Gynecology	Medicine	(1)	330,852	694,071	Frederick P. Zuspan
July 8, 1965	Melton Chair of Jewish History	Humanities	(1)	500,000	1,115,810	Jeremy Cohen
Sept. 3, 1982	Overstreet Chair in Cardiology	Medicine	750,000	784,939	1,394,459	Carl V. Leier
Jan. 9, 1976	Pomerene Chair in Medicine	Medicine	600,000	784,873	1,504,196	Henry G. Cramblett
Feb. 8, 1968	Reese Chair of Banking & Economics	Business	(1)	510,003	1,115,928	Edward J. Kane
Feb. 9, 1967	Riklis Chair in Business	Business	(1)	273,750	225,000	Rene M. Stultz
Dec. 9, 1982	Staub Chair for Research in Ophthalmology	Medicine	750,000	479,218	658,530	Vacant
May 7, 1971	Wing Chair of Cancer Research	Medicine	(1)	1,000,000	2,222,803	John G. Boutsellis
June 2, 1989	Wolfe Chair in Accounting	Business	1,250,000	766,249	836,867	Vacant
Jan. 12, 1962	Zollinger Chair of Surgery	Medicine	(1)	601,118	1,601,439	Olga Jonasson

Designated Chair (2)

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Chair</u>
1974	Yassenoff Designated Chair in Philosophy and Jewish Studies	Humanities	(2)	(2)	(2)	Tamar Rudavsky

(1) Historical Data on Funding Levels of Chairs

Until 3/2/72, a chair would be established if the fund generated enough income to pay the salary of the chair holder.

From 3/3/72 to 5/4/78, gifts of \$600,000 were needed to establish a chair.

From 5/5/78 to 9/5/85, gifts of \$750,000 were needed to establish a chair.

From 9/6/85 to present, gifts of \$1,250,000 were needed to establish a chair.

- (2) A "Designated Chair" may be established through annual support of \$75,000 or more. The donor will ordinarily be expected to guarantee support for a minimum of three years.

STATUS OF OHIO EMINENT SCHOLAR ENDOWMENTS  
THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
As of June 30, 1989

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder</u>
Apr. 5, 1985	Art and Design Technology	Arts	\$1,000,000	\$1,006,658	\$1,528,351	Noel Mayo
Apr. 5, 1985	Experimental Physical Chemistry	Math/Physical Science	1,000,000	1,001,782	1,624,901	Terry A. Miller
Mar. 6, 1987	Hydrogeology	Math/Physical Science	1,250,000	1,250,000	1,366,488	Frank W. Schwartz
Mar. 6, 1987	Industrial Microbiology	Biological Science	1,250,000	1,050,000	1,159,150	Fred R. Tabita
Mar. 6, 1987	Materials Research	Math/Physical Science	1,250,000	1,250,000	1,366,488	John W. Wilkins
Mar. 6, 1987	Mechanical Systems	Engineering	1,250,000	1,000,000	1,105,521	Vacant
Apr. 5, 1985	Molecular Genetics	Biological Science	1,000,000	1,037,000	1,562,673	Alan M. Lambowitz
Apr. 5, 1985	Scientific Computation	Math/Physical Science	1,000,000	1,218,349	1,776,761	Gregory R. Baker

STATUS OF PROFESSORSHIP FUNDS  
THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
As of June 30, 1989

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Professorship</u>
Feb. 1, 1974	Newton D. Baker-Baker & Hostetler Prof. in Law	Law	\$150,000	\$750,000	\$1,073,089	Albert L. Clovis
July 31, 1969	Bricker Prof. in Law	Law	(1)	367,660	753,360	Morgan E. Shipman
July 11, 1975	Critchfield Prof. in Engineering	Engineering	150,000	100,000	245,846	Mervin E. Muller
Mar. 1, 1985	Merrell Dow Prof. in Pharmaceutical Admin.	Pharmacy	250,000	350,000	478,872	Dev Pathak
May 1, 1981	Enarson Prof. in Public Policy	Business	250,000	498,415	920,541	William J. Shkurti
Feb. 3, 1978	Ernst & Whitney Prof. in Accounting	Business	150,000	431,851	684,039	Daniel L. Jensen
June 10, 1982	Flesher Prof. in Educational Admin.	Education	250,000	295,659	507,997	Walter G. Hack
May 1, 1981	Fontana Prof. in Metallurgical Eng.	Engineering	250,000	282,394	463,806	Robert A. Rapp
Dec. 9, 1982	Gerlach Prof. in College of Bus.	Business	250,000	675,733	1,075,012	Vacant
Mar. 7, 1975	Hitchcock Prof. in Environmental Physiology	Medicine	150,000	238,337	490,251	Jack A. Boulant
Dec. 7, 1978	Kennedy Prof. in Human Nutrition	Human Ecology	250,000	251,130	587,570	Vacant
June 14, 1948	Kimberly Prof. in Chemistry	Math./Phys. Sci.	(1)	132,500	324,635	Leo A. Paquette
Nov. 19, 1982	Kimberly Prof. in Pharmacy	Pharmacy	250,000	207,500	433,525	Duane D. Miller
Oct. 14, 1965	Lazarus Prof. in Population Studies	Soc./Behav. Sci.	(1)	158,785	325,568	Krishnan Namboodiri
Feb. 4, 1977	Levy Prof. for Cancer	Medicine	150,000	233,529	495,179	Joseph R. Drago
Feb. 13, 1969	McDougal Prof. in Engineering	Engineering	(1)	146,000	331,135	Vacant
June 9, 1979	Newman Prof. in Physical Science	Chemistry	250,000	280,313	464,541	Harold Shechter
Feb. 6, 1981	Nordholt Prof. in Mech. or Metal. Eng.	Engineering	250,000	261,275	476,481	Kenneth J. Waldron
Feb. 3, 1989	O'Donnell Prof. in Philosophy	Humanities	500,000	536,000	548,545	Vacant
Sept. 7, 1979	O'Neill Prof. in Law and Judicial Admin.	Law	250,000	250,004	521,658	Earl F. Murphy
July 11, 1980	Professorship in Plant Protection	Agriculture	250,000	338,834	660,762	Ira W. Deep
Apr. 10, 1969	Pomerene Prof. in the Prevention and Treatment of Infectious Diseases	Medicine	(1)	153,257	356,198	Calvin M. Kumin
Apr. 2, 1976	Powelson Prof. of Medicine	Medicine	150,000	254,787	561,605	Richard H. Wuenke
Apr. 4, 1975	Saslaw Prof. in Infectious Diseases	Medicine	150,000	163,330	353,608	Robert L. Perkins
Apr. 4, 1980	Shepard Endowed Prof. in Insurance	Business	250,000	302,042	594,772	David Mayers
Dec. 8, 1977	Shocknessy Prof. in Law	Law	150,000	130,000	295,127	Douglas J. Whaley
Sept. 5, 1986	Stanley Prof. in Law	Law	500,000	500,700	572,336	Michael D. Rose
Jan. 9, 1981	Topper Prof. in Law	Law	250,000	243,348	328,209	Howard P. Fink

<u>Date</u> <u>Established</u>	<u>Description</u>	<u>College</u>	<u>Amount</u> <u>Required</u> <u>for Full</u> <u>Funding</u>	<u>Book</u> <u>Value</u>	<u>Market</u> <u>Value</u>	<u>Holder of Professorship</u>
Nov. 1, 1985	VanBuren Prof. in Farm Mgt.	Agriculture	\$250,000	\$250,100	\$ 323,202	Bernard L. Erven
Apr. 15, 1985	Wiley Prof. in Phy. Med. and Rehab. Med.	Medicine	250,000	286,467	374,250	Vacant
Feb. 2, 1981	Wilson Prof. in Cardiology	Medicine	250,000	393,368	604,340	Robert J. Cody
Feb. 4, 1977	Wilson Prof. in Orthopedic Surg.	Medicine	150,000	151,775	338,340	Sheldon R. Simon
Apr. 10, 1969	Arthur Young Prof. in Accounting	Business	(1)	370,485	658,425	Andrew D. Bailey
Sept. 8, 1972	Youngberg Trustees Distinguished Prof.	Academic Affairs	150,000	351,608	613,331	Kenneth G. Wilson
June 7, 1973	Youngberg Prof. of Vet. Medicine	Vet. Med.	150,000	286,000	597,415	Robert L. Hamlin

Designated Professorships (2)

July 1, 1970	Duriron Co. Prof. of Metal. Eng.	Engineering	(2)	(2)	(2)	Carroll E. Mobley
May 3, 1985	Mason Desg. Prof. in Trans. and Logistics	Business	(2)	(2)	(2)	Bernard J. LaLonde
June 12, 1980	Platt-Porter, Wright, Morris and Arthur	Law	(2)	(2)	(2)	Lee M. Modjeska
Sept. 7, 1979	Presidents Club Prof. in Law	Law	(2)	(2)	(2)	Lawrence Herman
Sept. 8, 1978	Wiant Desg. Prof. in Chinese Lit. and Culture	Humanities	(2)	(2)	(2)	John C. Huntington

(1) Historical Data on Funding Levels of Professorships

Until 3/2/72, there had to be at least \$5,000 generated to the income account annually to establish a professorship.

From 3/3/72 to 5/4/78, gifts of \$150,000 were needed to establish a professorship.

From 5/5/78 to 9/5/85, gifts of \$250,000 were needed to establish a professorship.

From 9/6/85 to the present, gifts of \$500,000 were needed to establish a professorship.

- (2) A "Designated Professorship" may be established through annual support of \$30,000 or more for a specific term. The donor will ordinarily be expected to guarantee support for a minimum of three years.



**STATUS OF CHAIR FUNDS**  
**THE OHIO STATE UNIVERSITY FOUNDATION ENDOWMENT FUND**  
As of June 30, 1989

<u>Date Established</u>	<u>Description</u>	<u>College</u>	<u>Amount Required for Full Funding</u>	<u>Book Value</u>	<u>Market Value</u>	<u>Holder of Chair</u>
Feb. 3, 1986	Bank One Chair of Excellence	To be Determined	\$1,000,000	\$316,949	\$356,500	Awaiting completion of funding
Nov. 24, 1986	Dorothy M. Davis Chair In Cancer Research	Medicine	\$1,250,000	\$525,000	\$594,744	Awaiting completion of funding
Dec. 17, 1985	John Deaver Drinko - Baker & Hostetler Chair of the College of Law	Law	\$1,250,000	\$1,750,000	\$2,053,443	Robert J. Lynn
Dec. 6, 1985	Berry Chair of New Technologies in Marketing	Business	\$1,000,000	\$1,000,000	\$1,179,295	Vacant

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APPENDIX VIII

COLLEGE OF AGRICULTURE REPORT ON OARDC  
August 23, 1989

Presented to the Agricultural Affairs Committee  
(See page 160)

# COLLEGE OF AGRICULTURE

## REPORT on O.A.R.D.C.

August 23, 1989

### Goals

- Balance the annual operating budget by the end of FY 90
- Eliminate the negative cash balance by the end of FY 93

### Plan

- 20% reduction in operating funds; FY 90
- 20% reduction in personnel positions over 2-year period;  
FY 90 and FY 91  
(Personnel reductions through attrition, transfer to other positions within the College of Agriculture, transfer to other positions within O.S.U., and possible abolishment of positions.)

### Process

- OARDC Director requested department chairs and administrative units to submit plans for 10% and 20% reductions
- College of Agriculture administrative team submitted plan to achieve financial goals to Acting Provost Fred Hutchinson, Vice President Weldon Ihrig, and Controller Janet Achterman
- College of Agriculture administrative team met with each department chair to work out details of each unit's deficit reduction plan
- College of Agriculture administrative team met with Vice President Madison Scott to review possible reductions in personnel, to seek advice and counsel regarding personnel policies and procedures, and to plan procedures for the personnel reduction phase of the plan, if required
- Progress report discussed with Acting Provost Hutchinson, Vice President Ihrig, and Controller Achterman
- Meetings with faculty, staff and graduate students will be held on the Columbus and Wooster campuses (September 14-15) to share information about the deficit reduction plan

### Personnel Reduction

	<u>Faculty</u>	<u>A&amp;P</u>	<u>CCS</u>	<u>Specials</u>	<u>Total</u>
FTE 7/31/88	153	197	283	80	713
Base FTE 3/31/89	149	186	263	76	673
Target FTE 6/31/91	129	152	225	55	561
(% Reduction)	(-13%)	(-18%)	(-14%)	(-28%)	(-17%)
Current Plan Reductions	15	40	23	35	113

APPENDIX IX

THE OHIO STATE UNIVERSITY PLANT INDEBTEDNESS  
June 30, 1989

Presented to the Fiscal Affairs Committee  
(See page 161)

**The Ohio State University  
Plant Indebtedness  
as of June 30, 1989**

**BONDS PAYABLE**

General Receipts Bonds:	Due Date	Rate	Outstanding Debt
Series 1985 A	1986-2001	7.740%	\$22,945,000
Series 1985 B	1986-2001	Variable(5.212%)	33,400,000
Series 1986 A	1987-2001	7.210%	41,185,000
Series 1986 B	1987-2006	Variable(5.232%)	45,000,000
Total			<u>\$142,530,000</u>
Dormitory Revenue Bonds:			
Series A	1960-1997	4.180%	\$2,097,000
Series C	1961-1999	3.920%	600,000
Series E	1963-2000	3.840%	2,137,000
Series H	1963-1990	3.468%	100,000
Series I	1971-2006	4.490%	5,640,000
Total			<u>\$10,574,000</u>
TOTAL BONDS PAYABLE			<u>\$153,104,000</u>

**NOTES PAYABLE**

Certificates of Participation:			
Child Care Center	1987-2004	7.795%	\$3,275,000
Stores & Receiving Bldg.	1987-2005	7.800%	3,550,000
Total			<u>\$6,825,000</u>
Other Notes & Leases:			
GE (Radiology Eq.)	1986-1993	9.900%	\$909,030
Chicorp (Computer Eq.)	1988-1993	10.540%	37,310
Xerox (Duplicating Eq.)	1984-1992*	8.000%	850,225
HNB (Telephone Eq.)	1984-1990	8.000%	18,630
Ameritech (Phone Eq.)	1985-1997*	8.1-9.75%	1,383,131
HNB (Airport "T" Hangars)	1986-2011	11.330%	533,206
HNB (Airport "C" Hangars)	1986-2011	11.330%	1,188,897
Leasemark (Computer Eq.)	1986-1992*	7.9-10.0%	164,522
U.S. Dept.Ed (R&DH Energy)	1987-1991	3.000%	242,761
Pitney Bowes (Computer Eq.)	1985-1990	8.90%	7,189
Marquette (Phone System)	1987-1993	11.06%	51,584
IBM (Duplicating Eq.)	1988-1993	10.00%	16,955
Bankers Lsng. (Computer Eq.)	1985-1992*	10.54-12%	19,804
Chase Lsng. (Super Computer)	1987-1991	7.66%	3,538,259
Total			<u>\$8,961,503</u>
TOTAL NOTES PAYABLE			<u>\$15,786,503</u>

**TOTAL PLANT INDEBTEDNESS**

\$168,890,503

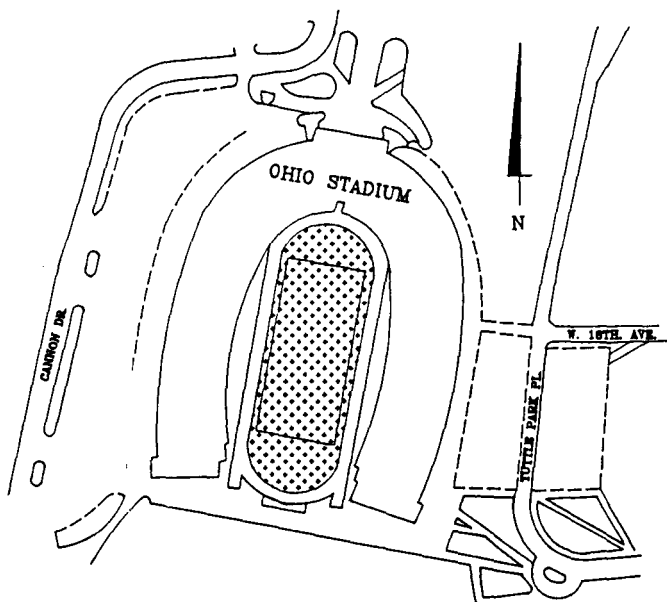
\* Indicates more than one lease

**APPENDIX X**

**OHIO STADIUM TURF REPLACEMENT  
NORTH ATHLETIC COMPLEX PLAYING FIELDS**

**Adopted by the Board of Trustees August 23, 1989  
(See page 208)**

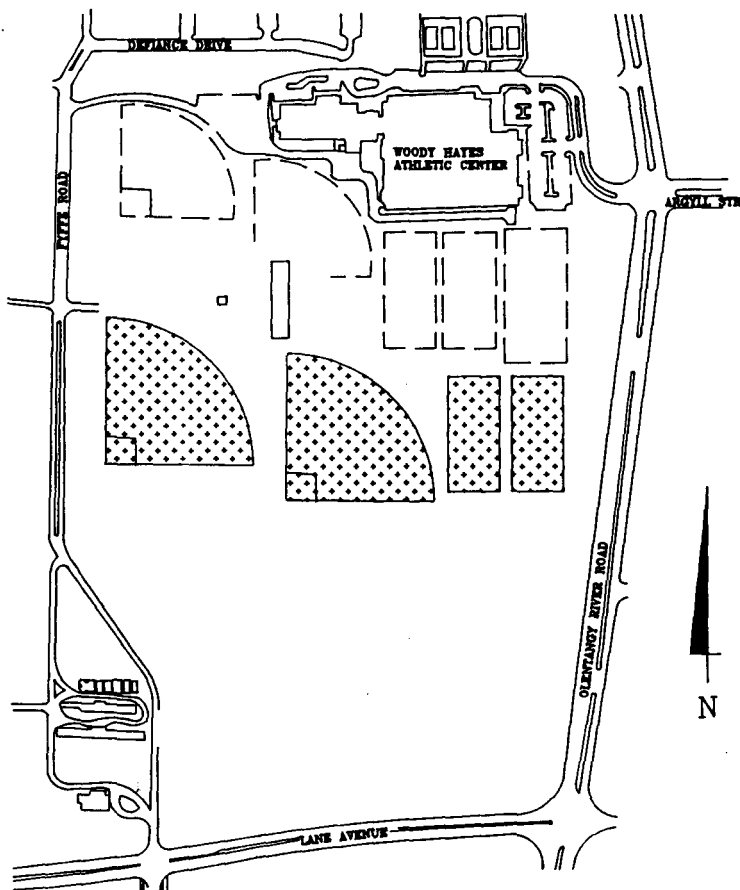
# OHIO STADIUM TURF REPLACEMENT



OFFICE OF BUSINESS AND ADMINISTRATION  
AUGUST 23, 1989



# NORTH ATHLETIC COMPLEX PLAYING FIELDS



OFFICE OF BUSINESS AND ADMINISTRATION  
AUGUST 23, 1989

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## APPENDIX XI

### SITE RENOVATION AND BRIDGE AND STREET IMPROVEMENTS, PHASE I CAMPBELL HALL LABORATORY REMODELING

Adopted by the Board of Trustees August 23, 1989  
(See page 209)

**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS**

**SITE RENOVATION AND BRIDGE AND STREET IMPROVEMENTS, PHASE I**

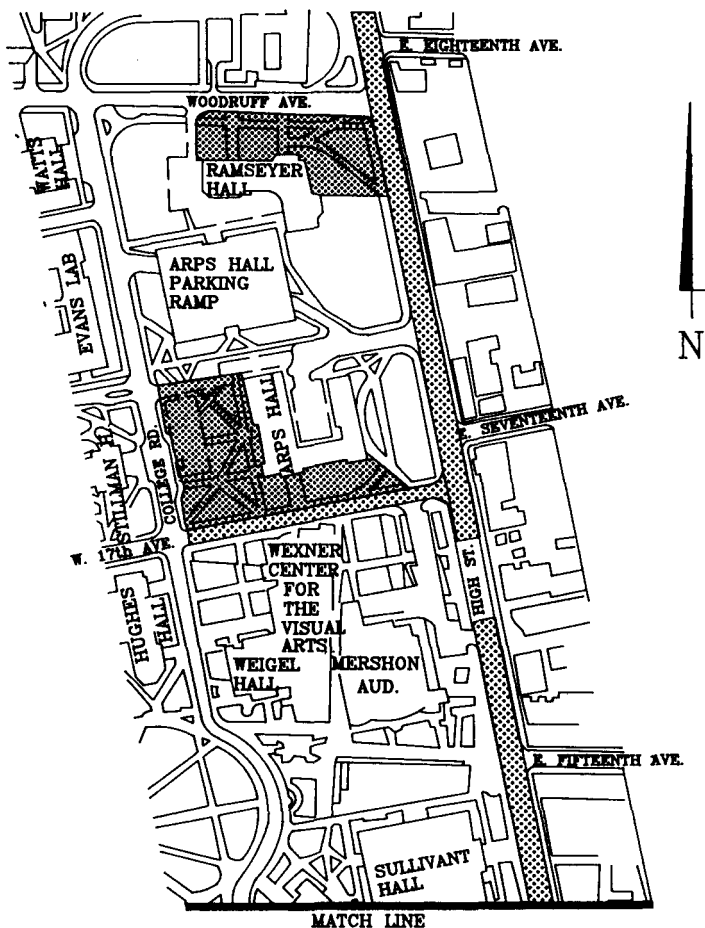
**Tabulation of Bids**

Bids received by The Ohio State University on June 26, 1989. Bids opened by Tamara Bell and tabulated by Don Barr. Awards indicated with an "\*".

<u>General Contract</u>	<u>Estimate</u>	<u>Dugan &amp; Meyers *B.S. Contractors</u>	<u>Coady Contracting</u>
Base Bid Only- (No alternates)	\$765,800.00	\$648,700.00	\$719,888.00      \$887,442.88
Total General Contract	\$765,800.00	\$648,700.00	\$719,888.00      \$887,442.88

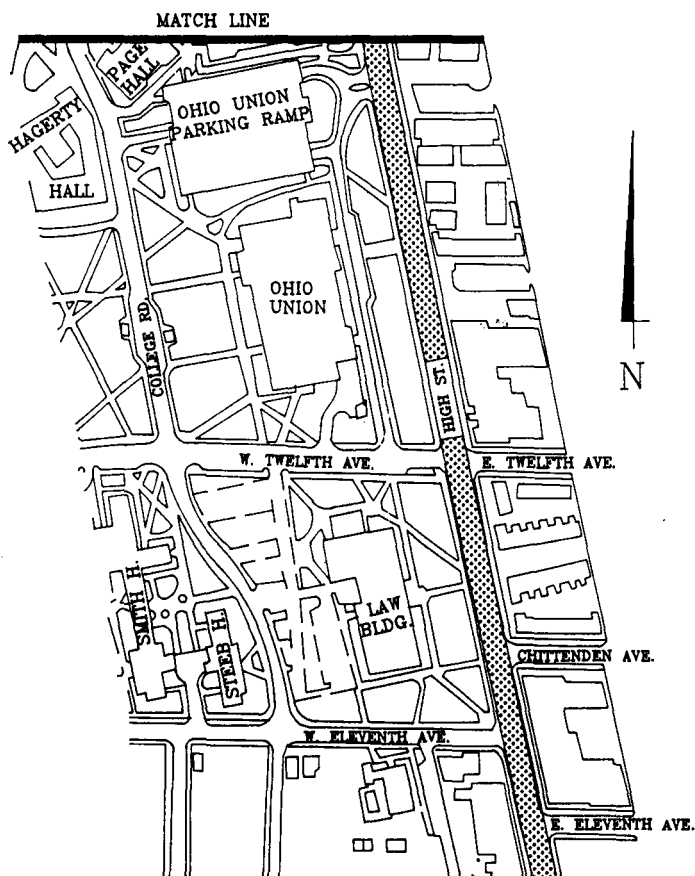
<u>Electric Contract</u>	<u>Estimate</u>	<u>Clagget *</u>	<u>Romanoff</u>	<u>Frush &amp; Homan</u>	<u>Jess Howard</u>
Base Bid Only (No alternates)	\$95,000.00	\$84,234.00	\$84,497.00	\$89,950.00	\$91,700.00
Total Electric Contract	\$95,000.00	\$84,234.00	\$84,497.00	\$89,950.00	\$91,700.00

# SITE RENOVATIONS BRIDGE AND STREET IMPROVEMENTS PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION  
AUGUST 23, 1989

# SITE RENOVATIONS BRIDGE AND STREET IMPROVEMENTS PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION  
AUGUST 23, 1989

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## CAMPBELL HALL LABORATORY REMODELING

### Tabulation of Bids

Bids received by the Division of Public Works on July 19, 1989. Bids opened by Geri Hendrickson and tabulated by Liz Foster. Awards indicated with an "A".

<u>General Contract</u>	<u>Estimate</u>	<u>B. S. Contractors *</u>	<u>Ed Ross</u>	<u>Functional Dev.</u>	<u>Gutknecht</u>
Base Bid	\$299,125.00	\$258,877.00	\$281,900.00	\$297,490.00	\$302,278.00
Alt. G-1 (Kitchen Equip.)	39,712.00	34,746.00	38,100.00	38,220.00	36,900.00
Alt. G-3 (H.E. Educ.)	28,657.00	14,507.00	21,200.00	17,750.00	27,600.00
<b>Total General Contract</b>	<b>\$367,494.00</b>	<b>\$308,130.00</b>	<b>\$341,200.00</b>	<b>\$353,460.00</b>	<b>\$366,778.00</b>

Alternates not taken:

Alt. G-2 (H.E. Admin)	\$7,046.00	\$12,438.00	\$12,000.00	\$10,990.00	\$10,800.00
Alt. G-4 (Gypsum Bulkhead)	3,149.00	8,070.00	8,200.00	4,450.00	4,200.00

	<u>Hurley</u>	<u>Good Home Maint.</u>	<u>Williamson</u>	<u>Waller &amp; Lund</u>	<u>Ohio State Constr.</u>
Base Bid	\$302,850.00	\$316,848.00	\$329,000.00	\$316,860.00	\$326,600.00
Alt. G-1 (Kitchen Equip.)	39,250.00	39,341.00	37,178.00	40,000.00	37,400.00
Alt. G-3 (H.E. Educ.)	29,850.00	26,532.00	24,452.00	34,500.00	29,700.00
<b>Total General Contract</b>	<b>\$371,950.00</b>	<b>\$382,721.00</b>	<b>\$390,630.00</b>	<b>\$391,360.00</b>	<b>\$393,700.00</b>

Alternates not taken:

Alt. G-2 (H.E. Admin)	\$11,850.00	\$11,934.00	\$10,255.00	\$16,000.00	\$11,400.00
Alt. G-4 (Gypsum Bulkhead)	.00	4,782.00	6,527.00	9,000.00	4,250.00

<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Stevens Painton *</u>	<u>Farber</u>	<u>Dievald &amp; Pope</u>
Base Bid	\$176,670.00	\$159,000.00	\$175,000.00	\$198,000.00
Alt. P-1 (Kitchen Equip.)	2,300.00	6,500.00	5,000.00	2,891.00
Alt. P-3 (H.E. Educ.)	6,750.00	1,050.00	500.00	815.00
<b>Total Plumbing Contract</b>	<b>\$185,720.00</b>	<b>\$166,550.00</b>	<b>\$180,500.00</b>	<b>\$201,706.00</b>

Alternates not taken:

Alt. P-2 (H.E. Admin)	\$2,000.00	\$900.00	\$1,500.00	\$808.00
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**REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS**

**CAMPBELL HALL LABORATORY REMODELING (CONTINUED)**

**Tabulation of Bids (Continued)**

<u>HVAC Contract</u>	<u>Estimate</u>	<u>Farber *</u>	<u>J. A. GUY</u>	<u>Stevens Painton</u>
Base Bid	\$155,590.00	\$179,700.00	\$187,300.00	\$190,400.00
Alt. H-3 (H.E. Educ.)	10,800.00	5,500.00	5,000.00	4,200.00
<b>Total HVAC Contract</b>	<b>\$166,390.00</b>	<b>\$185,200.00</b>	<b>\$192,300.00</b>	<b>\$194,600.00</b>

Alternates not taken:

Alt. H-2 (H.E. Admin)	\$9,550.00	\$4,400.00	\$5,300.00	\$4,200.00
Alt. H-5 (Stainless Hood)	3,000.00	4,000.00	4,000.00	4,500.00
Alt. H-6 (Cooling Tower)	20,000.00	18,500.00	21,000.00	15,200.00

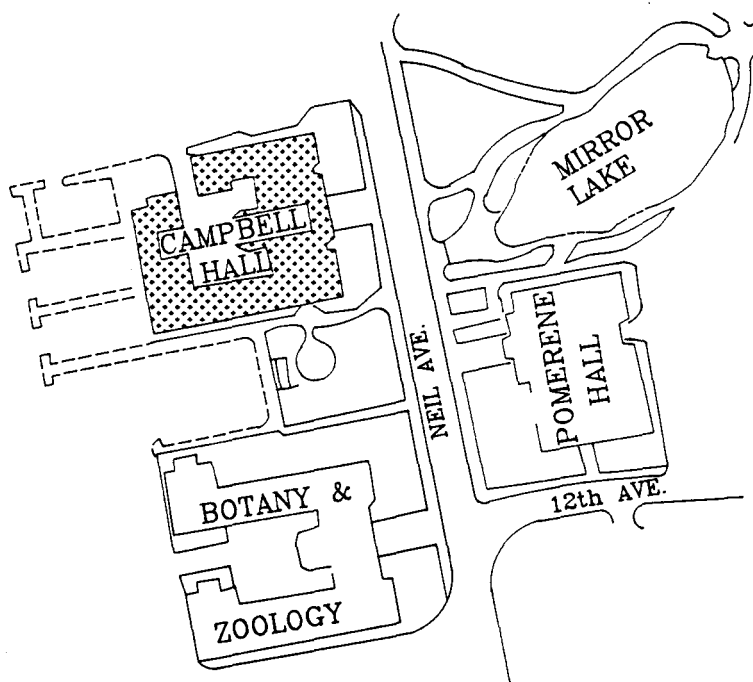
<u>Electric Contract</u>	<u>Estimate</u>	<u>Buckeye *</u>	<u>Demos</u>
Base Bid	\$140,970.00	\$119,630.00	\$208,556.00
Alt. E-1 (Kitchen Equip)	1,500.00	2,095.00	790.00
Alt. E-3 (H.E. Educ.)	10,735.00	6,584.00	19,580.00
<b>Total Electric Contract</b>	<b>\$153,205.00</b>	<b>\$128,309.00</b>	<b>\$228,926.00</b>

Alternates not taken:

Alt. E-2 (H.E. Admin)	3,445.00	4,269.00	5,540.00
Alt. E-6 (Cooling Tower)	1,250.00	300.00	1,380.00



# CAMPBELL HALL LABORATORY REMODELING



OFFICE OF BUSINESS AND ADMINISTRATION  
AUGUST 23, 1989



## APPENDIX XII

### COLLEGE ROAD STORM SEWER EXTENSION

Adopted by the Board of Trustees August 23, 1989  
(See page 211)

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

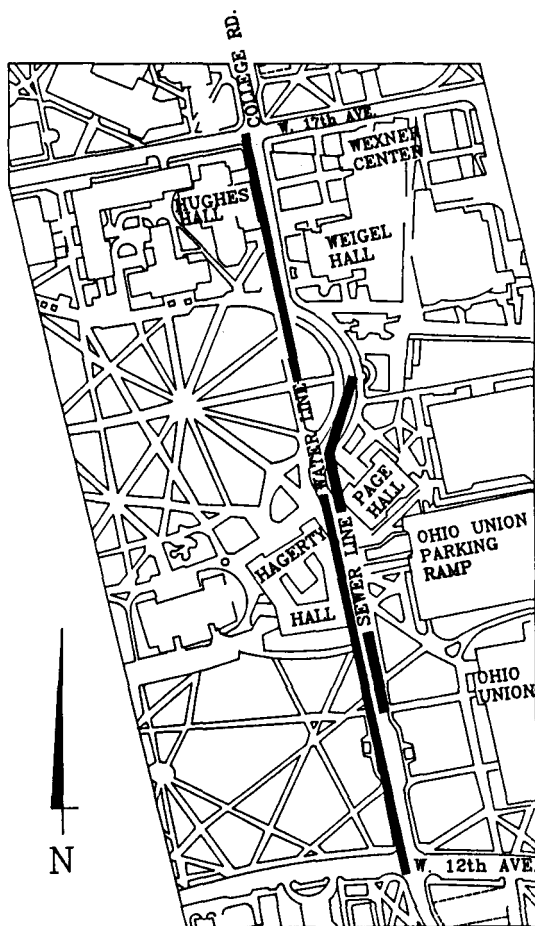
## COLLEGE ROAD STORM SEWER EXTENSION

### Tabulation of Bids

Bids received by The Ohio State University on August 15, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "\*".

<u>General Contract</u>	<u>Estimate</u>	<u>Concrete Constr. *</u>	<u>Richter</u>	<u>Complete General</u>
Base Bid	\$350,000.00	\$149,000.00	\$212,386.00	\$225,000.00
Alt. G-1 (Water Line)	.00	67,000.00	25,000.00	85,000.00
Total General Contract	\$350,000.00	\$216,000.00	\$237,386.00	\$310,000.00

# COLLEGE ROAD STORM SEWER EXTENSION



OFFICE OF BUSINESS AND ADMINISTRATION  
AUGUST 23, 1989

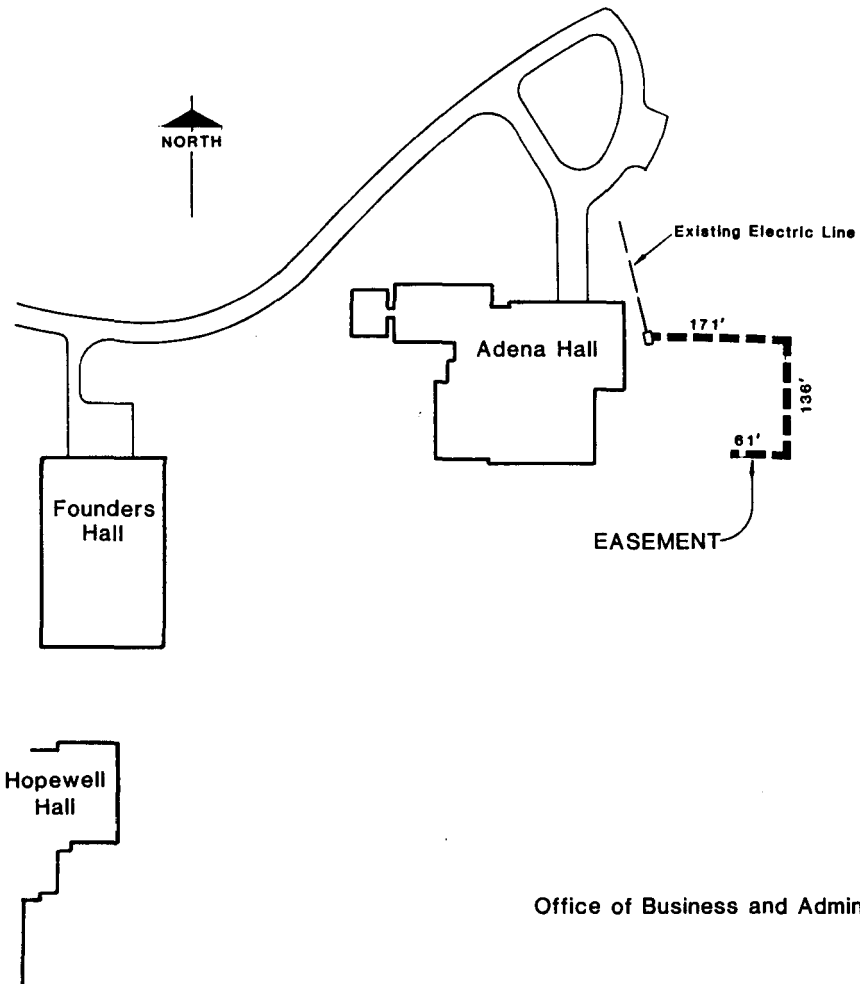
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APPENDIX XIII

EASEMENT  
OHIO POWER COMPANY

Adopted by the Board of Trustees August 23, 1989  
(See page 213)

# Ohio Power Company Easement at the Newark Regional Campus, The Ohio State University



Office of Business and Administration



APPENDIX XIV

BEECHWOLD MEDICAL CENTER, COLUMBUS, OHIO

Adopted by the Board of Trustees August 23, 1989  
(See page 214)

**Lease of the Beechwold Medical Center  
at 4808 North High Street**



North High Street

East Jeffrey Place

East Royal Forest Boulevard

Beechwold Medical Center  
4808 North High Street

East Beechwold Boulevard

Office of Business and Administration

APPENDIX XV

Degrees Conferred at

THE OHIO STATE UNIVERSITY  
COMMENCEMENT CONVOCATION

August 31, 1989



## Commencement Speaker

---

### Jay R. Smith

Jay R. Smith is publisher of *The Atlanta Journal* and *The Atlanta Constitution*. Prior to his appointment in Atlanta, he was publisher of the *Austin-American Statesman*.

He began his career in journalism at 17, when he was hired as a reporter at *The Cincinnati Post*. While a student at Ohio State, he worked on the national copy desk of *The Wall Street Journal* as a summer job.

Other newspaper positions Smith has held include president of the *Dayton Daily News and Journal Herald*; reporter, assistant city editor and assistant managing editor for the *Dayton Daily News*; and business manager of Dayton Newspapers, Inc., which published the two papers.

Smith is a native of Cincinnati and a 1971 graduate of Ohio State's School of Journalism. He earned a master's degree in public administration from the University of Dayton in 1975 and is a member of the Ohio State Alumni Advisory Board.

In 1986, *Texas Business Magazine* named Smith one of ten "rising stars" under the age of 40 in the state. His civic and professional affiliations include the board of directors of the Atlanta Chamber of Commerce; the Metro-Atlanta advisory board of directors of the Salvation Army; and chairman of the minority affairs committee of the American Newspaper Publishers Association.

Smith is serving as chairman of Camp Best Friends, a summer day-camp program for 13,000 Atlanta children; chairs the Atlanta United Way's strategic marketing committee; and serves on the boards of Central Atlanta Progress, Inc. and the Commerce Club in Atlanta. Smith chairs the United Negro College Fund drive in Atlanta this year and he served as the major gifts campaign chairman for ZOO Atlanta.

In 1987, the University awarded him the President's 300th Commencement Award, which was given to outstanding alumni for representing excellence in the enduring mission of Ohio State. We welcome him as speaker for today's commencement ceremony.

## Recipients of Honors

---

### **Gertrude B. Elion** **Doctor of Science**

Gertrude Elion, a leader in biochemical research, was one of the three 1988 recipients of the Nobel Prize in Physiology or Medicine. She won the award for her dedication to and accomplishment in the development of therapeutic drugs.

Her work in the 1950s led to an important breakthrough in the treatment of leukemia, and she has made invaluable contributions to the development of drugs to treat a variety of diseases, including gout, malaria, herpes infections, rheumatoid arthritis, cancer, and more recently, AIDS. She is a scientist emeritus at Wellcome Research Laboratories (WRL) in Research Triangle Park, North Carolina.

In 1937, Elion graduate Phi Beta Kappa and summa cum laude from Hunter College in New York and earned a master's degree from New York University in 1941. Despite her emeritus status, she remains active in research, teaching, advising, and in professional organizations.

Among her many honors and awards are honorary degrees from the University of Michigan, Brown University, and George Washington University. Her lengthy list of professional activities includes several terms as associate editor of the prestigious journal, *Cancer Research*; membership on the National Cancer Advisory Board; and a position on the board of directors of the American Association for Cancer Research. In those roles she has been a vocal proponent of basic research and has fought for the preservation of basic research support in the face of dwindling resources. She is also greatly concerned with the quality of science education in the United States. Her contribution to science has been profound, and Ohio State is deeply honored to present her with an honorary degree.

## Recipients of Honors

---

### Dale T. Friday Distinguished Service Award

Dale T. Friday was the first general manager of Ohio State's Farm Science Review, a position he held from 1963 until his retirement in 1981. Under his guidance, the event became nationally recognized as the premier showcase of the best in agricultural automation, farming practices, crop varieties, and livestock breeds.

Friday, who also served as professor of agronomy, pioneered research on forestry fertilization by airplane and originated the first aerial application of dry fertilizer during his tenure as county extension agent in Putnam County, Ohio. Friday also supervised the application of the first carloads of liquid nitrogen fertilizer ever used in the United States. He conducted some of the earliest research and demonstration work on no-till crop production in Ohio and supervised use of the first no-till corn planter utilized in Ohio.

Friday was among the founders and organizers of the North American Farm Show Council and has served as president, vice president, and treasurer of that organization. He is currently executive coordinator and in that role effected a 50 percent growth in membership of the council.

During the last decade, he has held leadership positions with the Ohio Vegetable and Potato Growers' Association, the Ohio Agro-Expo Agribusiness Trade Show, and the Ohio Association of Vocational Agriculture.

As an active community leader, he is involved in numerous organizations in the Columbus area and has participated in People-to-People Goodwill missions to China, Hong Kong, Korea, and Japan, as well as to Australia and New Zealand. Friday received both his bachelor's and master's degrees in agricultural education from Ohio State. His service to Ohio State and to the field of agriculture has been invaluable, and it is with great pleasure we award him this Distinguished Service Award.

### Thomas B. Smith Distinguished Service Award

As a former associate vice president for physical facilities, Thomas B. Smith was responsible for construction, renovation, maintenance, utilities, and landscaping services for the hundreds of buildings and thousands of acres that compose the Ohio State campuses. He retired in 1986 as an associate vice president emeritus after 39 years at the University. During his tenure, he directed the unprecedented growth in the University's physical plant that made it a model for institutional facilities management.

Smith came to Ohio State in 1946 to teach engineering drawing while studying for his degree in electrical engineering. He graduated in 1949 and began work as an engineer in the University Architects Office, where he served until he was named assistant director of the physical plant in 1956.

He was responsible for construction planning during a period of explosive growth at Ohio State. As assistant and then associate director of the physical plant between 1956 and 1970, he oversaw more than 300 major construction projects such as the entire North Campus residential and dining facilities, Baker Systems Engineering Building, and St. John Arena. During his tenure in the Department of Physical Facilities, nearly 78 percent of the University's buildings were constructed.

Smith used aggressive and innovative strategies to combat the energy crisis in the 1970s. While he served as associate vice president, his energy management measures saved more than \$100 million, and they will continue to provide savings to the University for years to come. Consequently, other universities have looked upon Ohio State as a leader in energy management.

A member of the Association of Physical Plant Administrators since 1963, he served as the 1981-82 president and received its Meritorious Service Award—the association's highest recognition. We, too, recognize him for his outstanding achievement and are proud to present him with this Distinguished Service Award.

## The Graduate School

Dean: Roy A. Koenigsnecht

### Doctor of Musical Arts

**Richard Clarence Lopez**, Columbus;  
B.Mus., M.Mus.; *Music*  
Dr. *Burdette Green*

### Doctor of Philosophy

**Farzan Abdolsalami**, Mashhad, Iran; B.S.  
(University of Oklahoma); M.S.; *Electrical Engineering*  
Dr. *James G. Gottling*

**Ioan Adonyi-Bucuroiu**, Gyuat Neshet,  
Israel; B.S. (Polytechnical Institute); M.S.;  
*Welding Engineering*  
Dr. *W. A. Baeslack III*

**Akintunde Akintayo Akioye**, Nigeria;  
B.A. (The University of Ife); M.A.  
(Fairfield University); *Communication*  
Dr. *R. Monaghan*

**Ahmad Maatooq Al-Shabaan**, Saudi  
Arabia; B.S. (Riyadh University); M.S.  
(University of California at Davis);  
*Agronomy*  
Dr. *Frank Himes*

**Abdollah I. M. Alajaji**, Durma, Saudi  
Arabia; B.A. (King Saud University);  
M.A.; *Education*  
Dr. *Elise J. Alberty*

**Beverly Joyce Allen**, North Carolina;  
B.S. (North Carolina Agricultural and  
Technical State University); M.F.A.  
(University of North Carolina at  
Greensboro); *Health, Physical Education  
and Recreation*  
Dr. *Seymour Kleinman*

**Cynthia Ann Allen**, Jackson; B.S.; M.A.  
(University of Dayton); *Psychology*  
Dr. *Gifford Weary*

**Paul Joseph Andaloro**, Canton; B.A.  
(Mount Union College); *Mathematics*  
Dr. *Joseph Ferrar*

**Emeka Bernard Anyadoh**, Imo, Nigeria;  
B.S. (Northeast Missouri State University);  
M.S. (Virginia State University);  
*Agricultural Education*  
Dr. *R. Kirby Barrick*

**Robert David Aron**, Columbus; B.A.  
(University of Iowa); M.B.A. (Illinois  
Institute of Technology); M.A.; *Education*  
Dr. *Ronald L. Jacobs*

**Kojo Assan**, Saltpond, Ghana; B.S.  
(University of Ghana); M.S.; *Agricultural  
Economics and Rural Sociology*  
Dr. *Dale Adams*

**Bela Bajnok**, Columbus; M.Ed. (Eotvos  
University); M.S.; *Mathematics*  
Dr. *Eiichi Bannai*

**Maree J. Garchow Bellchambers**,  
Mundelein, IL; Diploma (New South  
Wales College of Occupational Therapy);  
M.S.; *Education*  
Dr. *Gregory L. Trzebiatowski*

**Ajay Bhardwaj**, India; B.S. (Haryana  
Agricultural University); M.S. (Udaipur  
University); *Agricultural Education*  
Dr. *Larry E. Miller*

**Rajiv Bhatnagar**, Kanpur, India; B.Tech.  
M.Tech. (Indian Institute of Technology);  
M.S.; *Nuclear Engineering*  
Dr. *Don W. Miller*

**Carolyn Birmingham**, Cleveland; B.A.  
(University of Rochester); M.A.; *Health,  
Physical Education and Recreation*  
Dr. *Seymour Kleinman*

**Win Bo**, Rangoon, Burma; B.E. (Rangoon  
Institute of Technology); M.S.; *Computer  
and Information Science*  
Dr. *Bruce Weide*

**Karen Maki Bolinger**, Willowick; B.S.Ed.;  
*Mathematics*  
Dr. *M. Gregory Forest*

**Robert John Bowling**, Florence, KY; B.S.  
(Northern Kentucky University); M.S.;  
*Chemistry*  
Dr. *Richard L. McCreery*

**Greg Brock**, Columbus; B.A. (University  
of Michigan); M.A.; *Economics*  
Dr. *W. Eason*

**Frank Barringer Brooks**,  
Williamsburg, VA; B.A. (Christopher  
Newport College); M.A. (Ohio  
University); *Education*  
Dr. *Gilbert A. Jarvis*

**Dawna L. Buchanan-Berrigan**, Columbus;  
B.A. (Brock University); M.A.; *Education*  
Dr. *Janet Hickman*, Dr. *Rudine Sims Bishop*

**John Arnold Bunge**, Gambier; B.A.  
(Macalester College); M.A. (Miami  
University); M.S.; *Statistics*  
Dr. *H. N. Nagaraja*

**Robert William Butler**, Columbus; B.A.  
(Northwestern University); M.A.; *History*  
Dr. *Martha Garland*

**Marilyn L. Cantwell**, Columbus; B.S.  
(University of Wisconsin at Stevens  
Point); M.A. (University of New Mexico);  
*Home Economics*  
Dr. *Anne Coveney*

**Glynis Elaine Carr**, Columbus; A.B.  
(University of California at Berkeley);  
M.A.; *English*  
Dr. *Amy Shuman*

**Martha Carrillo**, San Juan, PR; B.S., M.S.  
(University of Puerto Rico); *Microbiology*  
Dr. *Omar O. Barriga*

**Paul C. Castagno**, West Hartford, CT;  
B.F.A. (University of Connecticut); M.F.A.  
(Stanford University); *Theatre*  
Dr. *Alfred S. Golding*

**Anthony Nino Celso**, Columbus; B.A.,  
M.A.; *Political Science*  
Dr. *Lawrence Herson*

**Chin-Fen Chang**, Taipei, Taiwan, R.O.C.;  
B.A. (National Taiwan University); M.A.  
(The University of Iowa); *Sociology*  
Dr. *Toby Parcel*

**Yueh-Jane Chang**, Keelung,  
Taiwan, R.O.C.; B.S. (Chung-Yuan  
Christian University); *Statistics*  
Dr. *William Notz*

**Hua Chen**, Beijing, P.R.C.; B.S. (Wuhan  
University); *Mathematics*  
Dr. *Dan Burghlela*

**Jian-Shan Chen**, Taipei, Taiwan, R.O.C.;  
B.S., M.S. (National Tsing-Hua  
University); *Mechanical Engineering*  
Dr. *C. H. Menq*

**Xiao-Dong Chen**, Beijing, P.R.C.; B.S.  
(Fudan University); M.S.; *Physics*  
Dr. *James Gaines*, Dr. *Daniel Cox*

**Yuh-Ing Chen**, Taipei, Taiwan, R.O.C.;  
B.B.A. (Fu Jen University); M.S. (National  
Central University); *Statistics*  
Dr. *Douglas A. Wolfe*

**Do Soon Cho**, Seoul, South Korea; B.S.,  
M.S. (Seoul National University); *Botany*  
Dr. *Ralph Boerner*

**Jae Hoon Choi**, South Korea; B.S.  
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- Jona Erica Warner**, St. Thomas, VI; B.S. (Armstrong State College); *Education*
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- Elisabeth Anne Wilson**, Warren; B.A. (Villanova University); *Education*
- Linda F. Wright**, Harrisburg; B.A. (Pikeville College); *Education*
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## **Master of Fine Arts**

**Solla Carrock**, Columbus; B.F.A. (Pacific Northwest College of Art); M.S. (Portland State University); *Art*

**William Robert DeForest III**, Oswego, NY; B.F.A. (State University of New York at Oswego); *Art*

**Stephen Michael Deorio**, Canton; B.F.A. (Cleveland Institute of Art); *Art*

**Suzanne Claire Evenson**, Worthington; B.S.H.E., M.S.W.; *Art*

**Prudence Yates Gill**, Miami, FL; B.A. (State University of New York at Fredonia); *Art*

**Mary Louise Greene**, Columbus; B.A. (University of Arkansas); *Art*

**Jack Pascal Harrison**, Columbus; B.F.A. (University of Georgia); *Art*

**Joseph Ihns**, South Bend, IN; B.A. (Purdue University); *Art*

**Francis Jackson Janes**, Gainesville, FL; B.F.A. (University of Florida); *Art*

**Ming Te Lin**, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan Normal University); *Art*

**Athanasios Maggioros**, Athens, Greece; B.F.A.; *Art*

**Christina Caravajal Quiroz**, San Antonio, TX; B.F.A. (Corpus Christi State University); *Art*

**Robert Tavani**, Erie, PA; B.F.A. (Columbus College of Art and Design); *Art*

**Renee Ann Witherwax**, Columbus; B.F.A. (University of Nebraska at Lincoln); *Art*

## **Master of Health Administration**

**Roland Conard Griggs**, Columbus; A.B. (Dartmouth College); M.D.; *Hospital and Health Services Administration*

## **Master of Labor and Human Resources**

**Kathy Patin Arcement**, Blacklick; B.S. (Texas A & M University); M.S. (California State University at Hayward); *Labor and Human Resources*

**Barbara Armitage**, Elyria; B.S.Ed.; *Labor and Human Resources*

**Christine Louise Cooper**, Lancaster, PA; B.S., B.S. (Elizabethtown College); *Labor and Human Resources*

**Lynn Ann Ervin**, Edmonton, Alberta, Canada; B.S.Bus.Adm.; *Labor and Human Resources*

**Anthony Martin Fischer**, Columbus; B.A. *Labor and Human Resources*

**Margaret Mary Green**, Monroe; B.S. (University of Dayton); *Labor and Human Resources*

**Bette Jean Hartschuh**, Columbus; B.S.Ed.; *Labor and Human Resources*

**Hugh David Hindman**, Columbus; B.A.; (College of Wooster); M.A.; *Labor and Human Resources*

**Dorothy Ann Rado**, Dayton; B.A. (Earlham College); M.S.W.; *Labor and Human Resources*

**Charles George Smith**, Cleveland; B.A. (John Carroll University); M.S. (University of Cincinnati); *Labor and Human Resources*

**Charles G. Turner, II**, Bellfontaine; B.A. (University of Kentucky); *Labor and Human Resources*

**Diana Lynn Weaver**, Marysville; B.S. (Bowling Green State University); *Labor and Human Resources*

## **Master of Landscape Architecture**

**Leigh Anne Dunworth**, Kansas City, MO; B.A. (Wichita State University); *Landscape Architecture*

**Whee Kyoung Kang**, South Korea; Bachelor's (Kyunghee University); *Landscape Architecture*

**Arrug Ouyiamapun**, Bangkok, Thailand; B.Land.Arch. (Chulalongkorn University); *Landscape Architecture*

**Djakaria Suryana Prawiranata**, Bandung, Indonesia; B.A. (Catholic University of Parahyangan); *Landscape Architecture*

**Robert Paul Tucker**, Little Rock, AR; B.Land.Arch. (University of Arkansas); *Landscape Architecture*

**Philip Gerard Tworek**, Omaha, NE; B.F.A. (University of Nebraska at Lincoln); *Landscape Architecture*

## **Master of Music**

**Ralph Quay Brown**, Cleveland; B.Mus.Ed. (Central State University); *Music*

**Jesse Isaac Hernandez**, San Antonio, TX; B.Mus. (University of Texas at San Antonio); *Music*

**Charles Gregory Washington**, Milwaukee, WI; B.Mus. (Fisk University); *Music*

**Kevin Nile Wines**, Wheelersburg; B.Mus.Ed., M.A.; *Music*

## **Master of Public Administration**

**Jan-Hsin Cheng**, Taipei, Taiwan, R.O.C.; B.S. (Tungshai University); *Public Policy and Management*

**Shujen Lin**, Taipei, Taiwan, R.O.C.; B.A. (National Chengchi University); M.A.; *Public Policy and Management*

**Derrick Parham**, Saginaw, MI; B.S.Soc.Wel. (Southern University Agricultural and Mechanical College); *Public Policy and Management*

## **Master of Science**

**Larbi Aboulfadl**, Rabat, Morocco; B.S. (Institute of Agriculture and Veterinary Medicine); *Geodetic Science and Surveying*

**Mark Steven Ackerman**, Millersport; B.S. (Pennsylvania State University); *Nuclear Engineering*

**Jacqueline Marie Akah**, Columbus; B.S.N. (Mankato State University); *Nursing*

**Raid Ali Jawad Al-Tahir**, Baghdad, Iraq; B.S. (University of Baghdad); *Geodetic Science and Surveying*

**Abdullah M. Alhamdan**, Riyadh, Saudi Arabia; B.S. (King Saud University); *Agricultural Engineering*

**Alpesh Parmanand Amin**, England; B.S. (University of Texas at Austin); *Electrical Engineering*

**Peter John Angeline**, Greensburg, PA; B.S. (Carnegie-Mellon University); *Computer and Information Science*

**Nitin Srinivas Apte**, New Delhi, India; B.Tech. (Indian Institute of Technology); *Industrial and Systems Engineering*

**Yong-Kook Bae**, Seoul, South Korea; B.S. (Yonsei University); *Chemical Engineering*

**Kimberly Anne Baker**, Nashport; *Natural Resources*

**Shankar Balasubramanian**, Madras, India; B.Tech. (Indian Institute of Technology); *Mechanical Engineering*

- Carol Jean Baldauf**, Marion; B.S.N. (Capital University); *Nursing*
- Gregory Robert Balogh**, Bay Village; B.S.Nat.Res., M.S.; *Zoology*
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- Carolyn Lee Berry-Pettit**, Columbus; B.S.Nurs.; *Nursing*
- Rajiv Bhatnagar**, Columbus; B.Tech., M.Tech. (Indian Institute of Technology); M.S.; *Computer and Information Science*
- Daniel Vasil Bogoevski**, Amherst; B.S. (Case Western Reserve University); *Chemical Engineering*
- Lora Lee Bohn**, Lima; B.S. (University of Dayton); *Statistics*
- Thomas Hire Borgstrom**, Kettering; B.S.E.E.; *Electrical Engineering*
- Jeanette Lorraine Cameron**, Columbus; B.S. (Ohio University); *Nursing*
- John Paul Cameron**, Indianapolis, IN; B.A., J.D. (Indiana University); *Computer and Information Science*
- Lawrence Alexander Capitini**, Columbus; B.S.; B.V.S. (University of Pretoria); B.S. (Rhodes University); *Veterinary Pathobiology*
- Peter Craig Cassini**, Cincinnati; B.A. (Indiana University); *Anatomy*
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- Deborah Michelle Chatman**, Columbus; B.S.N. (Saint Louis University); *Nursing*
- Debbie Lynne Cheatham**, Canton; B.S. (Vanderbilt University); *Nursing*
- Andrea Ying Chen**, Taiwan, R.O.C.; B.S.; *Ceramic Engineering*
- Sheng-I Chen**, Taiwan, R.O.C.; B.S. (Chinese Culture University); *Food Science and Nutrition*
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- Yi-Fei Chu**, Taipei, Taiwan, R.O.C.; Diploma (National Taipei Institute of Technology); *Civil Engineering*
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- Rebecca A. Muha**, Columbus; B.S. (The Pennsylvania State University); *Electrical Engineering*
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- Wendy Lee Reiboldt**, Hamilton; B.S. (Miami University); *Home Economics*
- Bernard James Renggli**, Kent; B.S.M.E.; *Mechanical Engineering*
- Ingrid Karen Richards**, Tacarigua, Trinidad & Tobago; *Home Economics*
- Darci Jean Richardson**, Novelty; B.A. (Hiram College); *Botany*
- Ricky Duane Rudd**, Columbus; B.S.Agr.; *Agricultural Education*
- Keith Edward Rupel**, North Liberty, IN; B.S. (Purdue University); *Mechanical Engineering*
- Christine Louise Ruther**, Dayton; B.S. (Xavier University); *Bio-Medical Engineering*
- Esmail Samimy**, Columbus; B.S. (State University of New York at Stony Brook); *Mechanical Engineering*
- Agus Santoso**, Temanggung, Indonesia; B.S. (Garjamada University); *Geodetic Science and Surveying*
- Suriyaarachchige Dayaratne Saratchandra**, Sri Lanka; B.S. (University of Colombo); Diploma (Institute of Surveying and Mapping); *Geodetic Science and Surveying*
- Karen Marie Sassen**, Nashport; B.S. (Ohio University); *Nursing*
- Tammy Hoshor Scheidegger**, Baltimore; B.S.H.E.; *Home Economics*
- Peter O. Schwartz**, Columbia; A.B. (University of California at Berkeley); *Mathematics*

- Steven Bernard Schwarzkopf**, Lake View, IA; M.D. (University of Iowa); *Statistics*
- Catherine Marie Scipione**, Worthington; B.S. (Xavier University); *Statistics*
- Thomas John Sefcik**, Westerville; B.S. (United States Air Force Academy); M.S. (Purdue University); M.S. (North Dakota State University); *Engineering Mechanics*
- Gannegoda Appuhamilage Yasanti Seneviratne**, Colombo, Sri Lanka; B.A. (Miami University); *Food Science and Nutrition*
- Joan Marie Sentipal**, Aliquippa, PA; B.S. (Hood College); *Allied Medical Professions*
- Valter Sergio**, Trieste, Italy; Bachelor's (Università Di Trieste); *Ceramic Engineering*
- Beverly Elliott Shapter**, Marion; B.S.Nurs.; *Nursing*
- Kathleen Short-Carroll**, Columbus; B.S.Nurs. (Capital University); *Nursing*
- Raymond Edward Slyh**, Columbus; B.S.E.E.; *Electrical Engineering*
- Suzanne Frances Smith**, Guatemala City, Guatemala; B.S. (Universidad Francisco Marroquin); *Bio-Medical Engineering*
- Majd Ed-deen Isam Sonalla**, Jordan; B.S.C.E.; *Engineering Mechanics*
- Susan Marvene Stahly**, Columbus; B.S. (The College of William and Mary); *Chemistry*
- Karl Nathan Steadman**, Geneva, NY; B.S. (Rensselaer Polytechnic Institute); *Electrical Engineering*
- Carolyn Elizabeth Stilwell**, Columbus; B.A. (University of Illinois); *Nursing*
- Nancy Pauline Streng**, Marysville; B.S.H.E.; *Home Economics*
- Kurt Allen Strickler**, Ontario; B.S.E.E.; *Electrical Engineering*
- Donna E. Supko**, Columbus; B.S. (Philadelphia College of Pharmacy and Science); *Pharmacy*
- Karen Marie Swalec**, Batavia, IL; B.S. (Southern Illinois University); B.S., D.V.M. (University of Illinois); *Veterinary Clinical Sciences*
- Stephen T. Tafaro**, Rockaway, NJ; B.S. (Upsala College); D.D.S. (Farleigh Dickinson University); *Dentistry*
- Mohamad Anas Tarazi**, Damascus, Syrian Arab Republic; B.S. (University of Damascus); M.S.; *Industrial and Systems Engineering*
- Terry Alan Taylor**, Richwood; B.S.Agr.; *Agricultural Economics and Rural Sociology*
- Rajendra K. Teli**, India; Bachelor's (Arder Patel University); *Civil Engineering*
- Shawn Louise Thayer**, Cummington, MA; B.S. (University of Connecticut); *Animal Science*
- Harvey Toliver**, Warner Robins, GA; B.A. (The Fort Valley State College); *Agriculture Education*
- Phyllis Toliver**, Perry; B.S. (The Fort Valley State College); *Agricultural Education*
- Fernando Ray Tollens**, San Juan, PR; B.S. (University of Puerto Rico); *Chemistry*
- Carol Gay Traunero**, Westerville; B.S.Food Sc.; *Horticulture*
- Bradley Russell Trees**, Milford Center; B.A. (Ohio Wesleyan University); *Physics*
- Wai-Keung Tsang**, England; B.S.E.E. (The Wichita State University); *Electrical Engineering*
- Hui-Hsun Tu**, Taiwan, R.O.C.; B.S. (Fu-Jen University); *Food Science and Nutrition*
- Sameer Suresh Vijayakar**, Secunderabad, India; B.Tech. (Indian Institute of Technology); *Metallurgical Engineering*
- Loni Marie Walker**, Columbus; B.S. (Western Oregon State College); *Botany*
- Susan Marie Wallace**, Williamstown, KY; B.S. (Eastern Kentucky University); *Statistics*
- Lih-Ling Wang**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); *Horticulture*
- Arnon Wexler**, Gigatayim, Israel; B.S.W.E.; *Welding Engineering*
- James Robert Whiteley**, Columbus; B.S. (Oklahoma State University); *Chemical Engineering*
- Jennifer L. Williams**, Amlin; B.S. (Murray State University); *Animal Science*
- Thomas William Witte**, Columbus; B.A. (University of Florida); *Geodetic Science and Surveying*
- Mark Steven Woodrey**, Trenton; B.S.; *Zoology*
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- Baiping Xie**, P.R.C.; B.S. (Sichuan University); *Mathematics*
- Chihheng Yeh**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); *Civil Engineering*
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- Shun-De Zhao**, Israel; B.S. (Wuhan Technical University of Surveying and Mapping); *Geodetic Science and Surveying*
- Xuejin Zheng**, Shanghai, P.R.C.; B.E. (Zhejiang University); M.E. (Shanghai Institute of Metallurgy); *Metallurgical Engineering*
- Binbing Zhou**, P.R.C.; B.S. (Fudan University); *OSU Biochemistry Program*

## Master of Social Work

- Carole Songy Delaforet**, Worthington; B.S. (Loyola University); *Social Work*
- Ruth Victoria Heldman**, West Islip, NY; B.A. (The College of Wooster); *Social Work*
- Edwin Harry Heller**, Dublin; B.A. (Ohio Wesleyan University); *Social Work*
- Barbara-Mary Rossler**, Springfield; B.A. (Ohio University); *Social Work*

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Marie Therese Mascarello, Columbus  
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David Michael Taylor, Moundsville, WV  
Diane Marie Vanik, Columbus

### Bachelor of Music

Michael Joseph Ferguson, Cincinnati  
Dana Paul Rowe, Columbus

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Shanley Renay Smith, Steubenville

### Bachelor of Art Education<sup>1</sup>

Tamara Ann Hampton, Columbus  
April G. Handley, Columbus  
Jon Micheal Hill, Akron

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Stephen Paul Honton, Columbus  
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Lynn Louise Powelson, Elyria  
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Peter Ward Cameron, Lima  
Robert Sean Hagen, Columbus  
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Donald Eugene Trick, Jr., Dayton  
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Michelle Lori Bloom, Columbus  
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Cynthia Ann Breda, Columbus  
Eugene Vincent Brugger, Westerville  
Joy Gwendolyn Brundidge, Cleveland  
Yolanda Mora Calderon, Columbus  
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Laura Michele Corbin, Columbus  
Theodore Alan Davis, Clyde  
Jon Stuart Doyle, Marion  
Beth Linda Dworken, Shaker Heights  
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Renée Lisette Graxirena, Columbus  
Wendy L. Gregory, West Jefferson  
Cheri Brook Hass, Columbus  
Patricia Lynne Hayes, Waynesville  
Rhonda Renee Hoffman, Dola  
Joseph W. Holbrook, Worthington  
Anne Marie Hollenkamp, Centerville  
Tamara Joy Hunyadi, Wooster  
Timothy James Kreider, Columbus  
Elizabeth Anne Landis, Westerville  
Kimberly Delores Litmon, Baltimore, MD  
William Charles Lydic, Vermilion  
Orville Wayne Martin, Columbus  
Vickie Lynn Martin, Solon  
Beth Louise Mirka, Brecksville  
Mitchell Fremont Mulbarger, Columbus  
Melissa Nichols, Columbus  
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Barbara Ann O'Neil, Worthington  
Jeffrey D. Passifume, New Castle, PA  
Eric William Rapp, Marion  
Robert Edward Reilly, Bay Village  
Lisa Cox Ritchie, Columbus  
John Byron Rush, Munroe Falls  
Brenna Jeanne Ryan, Columbus  
Athan C. Sarantopoulos, Youngstown  
Douglas Allen Schonauer, Lakeville  
Dolores Frances Shapiro, Missoula, MT  
Robert Jo Shoemaker, Columbus  
Barbara Jane Smail, Navarre  
Stéphane Joseph Spoiden, Columbus  
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Terri Yolanda Street, Columbus

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 Lisa Lynne Wachs, Cincinnati  
 Kirk Matthew Wall, Columbus  
 Van Roger Williams, Ottawa  
 Kimbra Marie Winnestaffer, Columbus  
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## College of Mathematical and Physical Sciences

Dean: C. William Kern

### Bachelor of Arts

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 David Alan Coleman, Columbus  
 Mary Elizabeth Heist, Alexandria  
 Brian Edward Jones, Columbus  
 Scott Allen Martin, Shelby  
 Richard Edward Raabe, Parma  
 Timothy Allen Thraikill, Portland, OR

### Bachelor of Science

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 Paula Ann Bihn, Oregon  
 Kirsten Lizbeth Campbell, Pickerington  
 Ismael Casillas, Caguas, PR  
 Jia-Chi Wang Chen, Tao-Yuan, Taiwan, R.O.C.  
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 Frank Anthony Correale, Canton  
 John Alfred Donnenwirth, Columbus  
 Lynne Marie Dougherty, Newark  
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 Mark Dennis Izold, Columbus  
 Kristin Michelle Jones, Hamilton  
 Henry Valentino Lagunzad, Cleveland  
 Michelle Anne Malcuit, Louisville  
 Scott Russell Olson, Columbus  
 Robert Edward Reilly, Bay Village  
 Athan C. Sarantopoulos, Youngstown  
 James Webster Saunders, Cleveland  
 James Michael Vespe, Conneaut  
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## College of Social and Behavioral Sciences

Dean: Joan Huber

### Bachelor of Arts

Falah Oujeil Abdulkarim, Aleppo, Syria  
 Alia Anor Akins, Powell  
 Steven Vincent Albano, Lyndhurst  
 Alejandro Palencia Aldana, Brecksville  
 Lisa Michele Amweg, Ohio City

Kelley Rae Anderson-Young, Springfield  
 Darrell Elliott Ansted, Sylvania  
 Matthew Lee Arntz, Strongsville  
 Rodney Allen Atkins, Worthington  
 C. Todd Bailey, Pittsburgh, PA  
 Jeanne Marie Bascuk, Columbus  
 Scott Eric Baughman, Sylvania  
 Kelly Lynn Bell, Elizabeth City, NC  
 Amy Lynn Betz, Maumee  
 Deborah Elyse Blackney, Worthington  
 Betsy Lynn Blair, Columbus  
 Arnold Dale Blankenship II, Fazeysburg  
 Elizabeth Kay Bonar, Mansfield  
 Kimberly Ann Bosko, Johnstown  
 Eric Joseph Boyles, Sylvania  
 Donita Evonne Brown, Forest Park  
 Scott Fitzgerald Brown, Worthington  
 Sharon L. Bucher, Mansfield  
 John Andrew Burns, Canfield  
 Thelma Rosario Butts, Sevilla, Spain  
 Linda Sue Casas, Gahanna  
 Jenny Lee Chaplik, Tallmadge  
 Deborah Jean Choleva, Warren  
 Joseph Michael Ciriello, Akron  
 Caritha Lanette Clarke, Felton, DE  
 Charles Robert Coffey, Lyndhurst  
 Lisa Lynn Conant, Westerville  
 Ann Kathleen Conroy, Centerville  
 Kristofer Myron Cooper, Cincinnati  
 John Curtis Cornett, Columbus  
 Deirdre Jo Correale, Columbus  
 Steven St. Leger Cox, Akron  
 Jamie Lynn Cruikshank, Hebron  
 Brenda Kay Dalton, Westerville  
 Roger Lyn Damron, Galion  
 Anne Elizabeth Davis, Bay Village  
 Gregory John Demos, Dayton  
 Daryl Tremayne Dennie, Cincinnati  
 Charles Michael Diersing, Delaware  
 Kimberly Kay Dill, Columbus  
 Teena Diane Dixon, Columbus  
 Marilyn Susan Dlesk, Mansfield  
 Emily Christine Dunn, Columbus  
 Steven Joel Erd, Toledo  
 Douglas Richard Ervin, Columbus  
 Michael Joseph Failla, Vincentown, NJ  
 Scott Robert Fenstermaker, Worthington  
 Victor Scott Fishman, Columbus  
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 Jeffrey David Friedman, Canton  
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 Andrea Kari Gibbs, Columbus  
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 Lora Ann Herf, Celina  
 Jeanette Hernández López, Bayamón, PR  
 Robin Lynn Hilton, Columbus

William Michael Homka, Vermilion  
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 Matthew Lewis Hughes, New Riegel  
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 Bryant Odell Johnson, Washington, DC  
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 James Dale Kauffman, Columbus  
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 Karen Margaret Kiener, Columbus  
 Erik Eugene King, Columbus  
 Glenn Michael Klassa, Dearborn, MI  
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 Charles Edward Kullik, Jr., Fairview Park  
 Robert Matthew Lauria, Smithtown, NY  
 Michael John Leckwatch, Columbus  
 Paula Jean Logan, Middletown  
 Michelle Marie Lorch, Kirkwood, MO  
 Deborah Ann Mac, New Kensington, PA  
 David Brian Mackey, Groveport  
 Adnan Malik, Columbus  
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 John Roger Matthews II, Marion  
 Kimberly René McCarthy, Granville  
 Charles Edward McGroarty, Columbus  
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 Amy Jane Catherine Meisner, Massillon  
 Christopher John Merritt, Rocky River  
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 Randal Lee Miller, Springfield  
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 Timothy Lee Murray, Columbus  
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 Denise Marie Nelson, Bay Village  
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 Cynthia Marie Newberry, London  
 Nancy Suzanne Niibert, Delaware  
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 Robert Allen Noe, Cincinnati  
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 James Paul Peck, Grove City  
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 Timothy James Phillips, Warren  
 John Fitzhugh Pilcher, Worthington  
 Brian Everett Poe, Shaker Heights  
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 Douglas Newton Rorapough, Columbus

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 Gregory Gene Schlechty, New Madison  
 Jillia Patrice Schlingman, Ashland  
 Traci Diane Schonauer, Westerville  
 Victor Joseph Schroeder, Gahanna  
 Keith Ronald Sergeant, Vandalia  
 James Harold Seymour, Powell  
 Michael Evan Shapiro, Marion  
 Aaron Howard Sigall, Bexley  
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 Susan Dean Smedley, Vandalia  
 Christopher Edward Charles Smitherman,  
 Cincinnati  
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 Sharon Ann Stiff, Granville  
 Jack Madeira Subel, Chagrin Falls  
 James Michael Sudduth, Jr., Kettering  
 Mark C. Sull, Willoughby Hills  
 Jennifer Carol Thomasson, Chesterland  
 Terry Alan Tibbals, Upper Arlington  
 Paul David Tinkelenberg, Charlotte, NC  
 Ann Elizabeth Tobin, Cleveland  
 Judith Anne-Cox Tomcho, Granville  
 Jon Mathew Van Buren, East Claridon  
 Michelle Jean Ventker, Wyoming  
 Carolyn Yvonne Wade, Russell  
 Joel Eric Weber, Lisbon  
 Patricia Marie Werner, Warren  
 Deane Richard Western, Kalamazoo, MI  
 Laura Lee Weygandt, Cleveland Heights  
 Rebecca Ann Whiteside, St. Clairsville  
 Richard Michael Whitmore, Bainbridge  
 Lee Mary Wilson, The Plains  
 D. Barry Winovich, Chagrin Falls  
 George Howard Wolfington, Jr.,  
 Cambridge  
 Debora Lynn Yurek, Solon

## Bachelor of Science

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 Jessica Lynn Anderson, Urbana  
 Steven Anthony Audi, Brunswick  
 Kevin J. Butler, Columbus  
 Marcos Chong, Dominican Republic  
 Matthew Franklin Chronister, Medina  
 Alexander G. Gowan, Columbus  
 Robert Leroy Numbers, Cridersville  
 Bethany Ann Ritter, Columbus  
 Kristin Michelle Rose, Xenia  
 Kevin Grady Shays, Wellington  
 Michael James Stricklin, Ashland  
 Dean M. Watzman, Columbus  
 Vivianne Mary Whalen, Akron  
 Julie Anne Willis, Columbus

## School of Journalism

### Bachelor of Arts in Journalism

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 Kimberly Merle Allen, Ashland, KY  
 Reginald Charles Anglen, Cleveland  
 Betsy Sue Berman, University Heights

Anne Marie Berring, Canton  
 Krista Carol Bistline, Milan  
 William Jasper Black, Marion  
 John Carl Bombatch, Marion  
 Thomas Michael Boyd, Gahanna  
 Julia Ann Brinksneader, Mt. Sterling  
 Lynn Michele Bruno, Hopedale  
 Andrew Patrick Coffey, San Diego, CA  
 Leslie Marguerite Curran, Worthington  
 Cameron Leigh Davis, Dayton  
 Susan Marie Demski, Rayland  
 Arden Louise Dobias, Columbus  
 Kelly Marie Donahue, Dublin  
 Brian Joel Dulay, Maumee  
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 John Edward Elsasser, Piqua  
 Susan Laurie Esterline, Dublin  
 Daryn John Fersovich, Edmonton,  
 Alberta, Canada  
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 Andrew William Forcey, Brampton,  
 Ontario, Canada  
 James Emery Fox, Forest  
 Michael William Fox, Galion  
 Marcco Anthony Gambatese,  
 Highland Heights  
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 Dawn Michelle Hammond, Bainbridge  
 Stephanie Raé Harper, Zanesville  
 Viviana Lamanna Heger, Columbus  
 Craig Randall Jordan, Cleveland  
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 Jill Marie Keenan, Medina  
 Michael Charles Kehlmeier, Columbus  
 Maureen Ann Kilkenny, Mt. Vernon  
 David Jon Kirschbaum, Akron  
 Gia Derede Kourilas, Columbus  
 Mary Teresa Kreuz, Upper Arlington  
 Patricia Anne Kuhar, Wadsworth  
 Michelle Lynn Langhals, Ottoville  
 Mary Katherine LeMay, Columbus  
 Kimberly Anne Maly, Berea  
 Timothy C. Martin, Latham  
 Amy Marie Mathews, Columbus  
 Melissa Rochelle Miller, Shaker Heights  
 Joseph Patrick Mischler, Cincinnati  
 Mohua Nandi, Columbus  
 William Clayton Newman, Jr., Dola  
 Julia Delinda Page, Columbus  
 Tara Anne Powers, Southbury, CT  
 Heather Ann Putney, Rochester, NY  
 Brynn Ann Ray, DeWitt, MI  
 Lisa Ann Riznikove, Port Clinton  
 Laurie Anne Robb, Granville  
 Leigh Kingsbury Roessler,  
 Upper Arlington  
 Laurence F. Rosenthal, Cincinnati  
 Jillia Patrice Schlingman, Ashland  
 Frank Scott III, Warren  
 Lori Ann Shoemaker, Bath  
 Lisa Ann Shumay, Brunswick  
 Michelle Lorene Skomra, Lisbon  
 Jerrud Cortney Smith, Columbus  
 Kendra Lisa Smith, Lisbon  
 Carole Ann Spencer, Zanesville  
 Kristine Hayes Stultz, Lancaster  
 Susan Wertz Szturm, Middletown

Martha Ann Weithman, Columbus  
 D. Scott Wilson, Tiffin  
 Tricia Ann Wintergerst, North Olmsted  
 Jenny Elizabeth Worden, Black River  
 Debora Lynn Worrell, Cadiz

## College of Agriculture

Acting Dean: J. Robert Warmbrod

### Bachelor of Science in Agriculture

Gary Linden Baldosser, Green Springs  
 Polly Rae Carpenter, Columbia Station  
 Christopher Peter Ciotta, North Olmsted  
 William Edward Distad, Columbus  
 Michael Scott Galbreath, Godfrey  
 Daniel Lynn Hall, Columbus  
 Eric Oliver Harding, Lancaster  
 Gary Lynn Hart, Galloway  
 George Edgar Hill, Marysville  
 Kristine Lynn Hoover, Bucyrus  
 Jerry Scott Hoppes, Greenfield  
 Pamela Kay Hunt, Amelia  
 Matthew Alan Lane, Washington  
 Court House  
 Margaret Louise McArtor, Hemlock  
 Travis Dean Pees, Dola  
 Ann Marie Rosati, Akron  
 Daniel Joseph Schmittmeyer, Anna  
 Mark Darrin Schweitzer, Findlay  
 Todd Dean Stockwell, Galena  
 Jeffrey Robert Stroupe, Akron  
 Brian Earl Thomas, Kenton  
 Richard A. Warner, West Chester  
 Kimberly Sue Weller, Columbus  
 Antonios Konstandinos Xenikis, Campbell  
 Anthony Michael Yacaprano IV, Wooster

## School of Natural Resources

### Bachelor of Science in Natural Resources

Kimberly Anne Baker, Nashport  
 Vanessa Cataldo, Rocky River  
 Rita Louise Clements, Pioneer  
 George Albert Comstock, Chillicothe  
 Jeffrey Charles Gates, Carrollton  
 Mark Allen MacLeod, Dayton  
 Kenneth Ray Pendley, Centerville  
 Juli Marie Spohn, Wadsworth  
 Edward Dodge Sturges, Upper Arlington  
 Christy Jo Swartz, Marion  
 Michael Richard Thomas, Brecksville

## Agricultural Technical Institute—Wooster

### Associate in Applied Science

John Edward Druga, White Oaks, PA  
 Keith Eric Etchen, Hicksville  
 Julie Ann Harbert, Wooster

Neil Douglas Harder, Martin  
Martha Isaura Holguin, Wooster  
Rhonda Lee Roberts, Wooster  
Todd Alan Sheets, Pemberville  
Kevin Lee Stottsberry, Caldwell  
Craig John Woltz, New Lexington

## College of Business

Dean: H. Justin Davidson

### Bachelor of Science in Business Administration

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Cheryl Ann Adams, Westerville  
James Anthony Albanese, Eastlake  
Tamara Jane Albright, Circleville  
Tracy Lee Allen, Columbus  
Alan Lewis Argabright, Jackson Center  
David Michael Barnes, Columbia Station  
Dane Thomas Bartley, Waverly  
Jon Allan Beacham, Waynesville  
Marcia Marie Bear, Hudson  
Amy Beth Beard, Upper Sandusky  
Laurie Sue Beckley, Bellevue  
Shawn Maria Behling, Columbus  
Steven Berg, University Heights  
Dawn Lynne Beutler, Findlay  
Kristine Marie Biermann, Shaker Heights  
Daron Eugene Binkley, Lima  
J. Craig Blaine, Columbus  
Lana Joan Bowman, Canton  
Timothy Michael Brady, Marion  
Mark Prescott Brault, Westerville  
David Nicholas Britt, Columbus  
Robert Henry Broehl, Worthington  
James Steven Bronder, Lima  
Thomasina L. Browder, Cleveland  
Jonathan Kenward Brown, Mentor  
Julie Lynn Brown, Mentor  
Tamborah Sue Burns, Carroll  
Jeffrey Robert Burroughs, Toledo  
Suzanne Barbara Mercedes Cantarino,  
Austin, TX  
Kimberly Sue Carey, Heath  
Melissa Ann Carter, Columbus  
Julia Lucinda Caudill, St. Paris  
Vicki Joy Cellars, Centerville  
Paula Lee Chamblin, West Union  
Jacquelyn Marie Chase, Newark  
Lorna Ann Chavers, Los Angeles, CA  
Kenneth Anthony Ciolli, North Canton  
Paul Michael Cira, Lima  
Michael Wick Cline, Marietta  
David E. Coman, Gahanna  
Christopher Brian Combs, Marion  
Christopher Joseph Conley, Kettering  
Gregory John Crecelius, West Chester  
Juliette M. Crowley, Temple Terrace, FL  
Gary W. Davis, Cleveland  
Jennifer Ruth Davis, Beavercreek  
Steven Bernard Davis, Columbus  
Susan Elizabeth Davis, Westerville  
Doreen Marie DeMeter, Harrisville  
Thomas E. Depinet, Galion  
Lisa Kristina DeStefano, Lakeside  
Stephen J. DeWitt, Columbus

Steven J. Dicker, Columbus  
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Columbus  
Michael Edward Dorsey, Willowick  
Kerrie Lucille Dugan, Columbus  
Brian Kevin Dyer, Delaware  
Philip Dzanko, Highland Heights  
Kathi Ann Earnest, Wadsworth  
John Benton Eckels, Granville  
David Alan Edling, Salem  
John Edward Eggert, Sacramento, CA  
Steven Robert Egler, Whitehall  
Charles Wesley Erosheвич, Wintersville  
Douglas Mark Evans, Columbus  
Brad J. Fehn, Marion  
Glenn Carl Fernandes, Columbus  
Julie Ann Ferrara, Columbus  
Glenda Sheila Fiegl, Columbus  
Christopher Thomas Fisher, Bryan  
Julie Ann Fleischer, New Albany  
Phillip C. Fogarty, Springfield  
Brian Scott Footer, Dayton  
Bonnie Lynn Foster-Spear, Newark  
Kelly J. Fox, Columbus  
Todd C. Frankel, Novelty  
Karl James Frey, Kirby  
Vincenzo Ben Frustaci, Canton  
Tod Alan Funk, Kettering  
Steven B. Gamary, Lakewood  
Michael R. Gannon, Brook Park  
Timothy L. Garner, Columbus  
James C. Gibson, Columbus  
Bret Randall Gilmore, Celina  
Lisa Lynn Glassco, Chillicothe  
Yvonne Lynn Goddard, Chester, WV  
Pamela Kay Goettmoeller, Botkins  
Douglas Ralph Gosnell, Reynoldsburg  
Greg Robert Grabovac, Upper Arlington  
Keven Christopher Gray, Huron  
Thomas Grist, Madison  
Deborah Lynn Gura, South Euclid  
Tom Paul Gutmann, Upper Arlington  
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Elizabeth Anne Hall, Cleveland Heights  
Wendy Dawn Hambel, Zanesville  
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Marco Island, FL  
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Raymond Michael Horgan, Columbus  
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David Scott Keefer, Westerville  
Michael Patrick Keegan, Worthington  
Jeffrey Gerald Keil, Toledo  
Amy Sue Kentner, Wapakoneta  
Jerome Davis Keyser, Westerville  
Susan J. Kiehmeyer, Marion  
Shelly Lynn Kightlinger, Marion  
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Lisa Ann Kraft, Russells Point  
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Douglas Allan Kuczynski, Cleveland  
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James Brian Lautzenheiser, Massillon  
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Mi S. Lim, Vermilion  
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Michael Anthony Manocchio, Seven Hills  
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Keith Allan Mischel, Lyndhurst  
Masami Mitsui, Tokyo, Japan  
Joe Edward Mobley, Columbus  
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James Wayne Moores, Cincinnati  
Jon R. Morgan, New Philadelphia  
Richard Alan Morgan, Carrollton  
Roger Todd Morris, Summit Station  
Glen L. Mortensen, West Chester  
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 Tanya Dawn Pine, Pataskala  
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 Mickey Lynn Proxmire, Payne  
 Mark Allen Quarm, Kirtland  
 John R. Quigley, Columbus  
 Timothy Alan Rabold, Columbus  
 Adnan Rahman, Columbus  
 Virginia Annette Rahrig, Powell  
 Brian Curtis Ranft, Worthington  
 Seema Ravishankar Rao,  
     Secunderabad, India  
 Lori J. Reed, Independence  
 Michael John Reed, Toledo  
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 Daniel Alan Rhodes, Columbus  
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 Heather Lynn Riddel, Granville  
 Estel Tyrone Ried, Urbana  
 Michael E. Riegelsberger, Elyria  
 Matthew Newman Riehl, Portsmouth  
 Rebecca Lea Ring, New Orleans, LA  
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 Christine Marie Ruffing, Brookfield  
 Anne McNulty Sadeghipour, Rocky River  
 Andrew Thomas Sanderson, Columbus  
 Layth Alan Scantland, New Madison  
 Steven Todd Schindler, Reynoldsburg  
 William Edmund Schlag, Jr., Kent  
 Cora Shaw Schnaufer, Columbus  
 Tom J. Scholl, Columbus  
 Ian Andrew Schultz, Waynesville  
 Tracie Susan Schurr, Chagrin Falls  
 Eric David Seebach, Grove City  
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 Lisa Lynn Shamblin, Columbus  
 Michael Joseph Shaughnessy, Shelby  
 Gregory Kenneth Shooter, Franklin  
 Kenna Vaughn Short, Vincent  
 Thomas Douglas Shultz, Worthington  
 Nancy Anne Siefker, Kalida  
 Joe A. Silvestri, Westerville  
 Michael Damian Slogar, Willoughby  
 Dean Joseph Smith, Cleveland  
 Denise Michelle Smith, Middletown  
 Thomas Christopher Snide, Columbus  
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 Quentin Douglas Walls, Columbus  
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     Taiwan, R.O.C.  
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 Thomas Michael Weber, Willoughby Hills  
 Jonathan Tobias Weiant, Chagrin Falls  
 Andrew William Weiss, Youngstown  
 Brenda Lynn Welsh, New Springfield  
 Jeffrey Alan Wilson, Westerville  
 Tamara Lee Winbigler, Shelby  
 DeLaina J. Wingo, Columbus  
 Dolliana Marie Wittkopp, Gahanna  
 Michael Paul Wong, Chesterfield, MO  
 Russell Curtis Wood, Findlay  
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 Tsz Yee (David) Wu, Hong Kong  
 Shu-Fang Yeh, Taipei, Taiwan, R.O.C.  
 Winnie Wingyee Yip, Hong Kong  
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 Steven Jay Zawatsky, Trotwood  
 Gregory Otto Zielke, Gahanna

Logan Bee Dysart, Columbus  
 Rita Joan Ervin, Nevada  
 Stefan Tomas Farrenkopf, Columbus  
 Julie Marie Fasano, Englewood  
 Jodi Ellen Fishman, Columbus  
 Kimberly Dianne Fuller, Smithville  
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 Susan Lynn Gardner, Worthington  
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 Krista Lynn Gerhart, Bucyrus  
 Luran Elizabeth Hammill, Columbus  
 Michael John Hannah, Columbus  
 Todd Harper Hardesty, Shelby  
 James Paul Harlan, Ashland  
 Ralph Gregory Harrington, Monroe, MI  
 Evelyn K. Hauck, Newark  
 Linda Marie Himes, Westerville  
 Albertina Dora Hoelker, Orient  
 Tracy Ann Holstein, Boardman  
 Amy Michelle Hullhorst, Marion  
 Diane Mary Ingber, Columbus  
 Gail Lynn Johnson, Worthington  
 Rebecca Anne Jozwiak, Westerville  
 Mark Wesley Kelley, Mansfield  
 Linda Lou Kilmer, Grove City  
 Kelly Renee Kinder, Columbus  
 James Edward Kloenne, Cincinnati  
 Dawn Marie Kneisel, Lorain  
 Erin Kathleen Krause, Delaware  
 Monica Marie Lachman, Columbus  
 John Damon Lance, Lakeville  
 Randall Harrison Leedy, Columbus  
 Jill Antoinette Lombardo-Lucke, Lima  
 Maria Ann Lyall, Eastlake  
 Janice Louise Lyday, Columbus  
 Karen L. Machak, Mentor  
 Kelly Elizabeth Martin, Beachwood  
 Scott Michael McLain, Akron  
 Thomas Allen Moore, Orrville  
 Cynthia Ann Morrissey, Lima  
 Michele Anita Morrison, Vincent  
 Terri Lynn Ross, Fairborn  
 Kelly J. O'Brien, Delaware  
 Amelia Louise Paxson, Thornville  
 Elizabeth Anne Potts Anderson,  
     Worthington

## College of Education

Dean: Donald P. Anderson

### Bachelor of Science in Education

Jennifer Sue Arth, Marysville  
 Laurie A. Ashline, Fredonia, NY  
 Jodi Rae Back, Frazeysburg  
 Robin Nicole Bartholomew, Galloway  
 Richard Eugene Batts, Jr., Columbus  
 Alan James Bell, Whitehall  
 Julie Ann Brooks, Columbus Grove  
 Pamela Jean Burich, Austintown  
 Jeannette E. Carter, Columbus  
 Lynn Chrisman, Columbus  
 Curtis Mark Clough, Shelby  
 Anita Kay Collier, Hilliard  
 Jennifer Lynn Collins, Marion  
 Libertad Cruz, Pickerington  
 Ann Rae Della Flora, Columbus  
 Susan Lynette Doone, Westerville  
 Tracy Lynn Dunlap, Scio

Mark David Pumphrey, Columbus  
 John Edward Rath, Montpelier  
 Mark Kevin Render, Elizabeth, PA  
 Brett Douglas Robson, Wakeman  
 Gregory Scott Rodman, Marion  
 Jocelyn Jane Rog, Medina  
 Tim Jon Ross, Columbus  
 Jane Ellen Ross, Tiffin  
 Lauri Kathleen Rowat, Perrysville  
 Michael Anthony Sansone, Lansing  
 Susan Kay Shoaf, Marion  
 Gregory Lee Standley, Bellefontaine  
 Michelle Snader Staton, Galion  
 Michael James Stinemam, Lexington  
 Brooke Anne Teets, Maumee  
 Daniel Morris Vallette, Columbus  
 Susan Elaine Williams, Canal Winchester  
 Milon E. Winovich, Columbus  
 Michael John Winters, Columbus  
 Susan Lorraine Wisvari, St. Clairsville  
 Heidi Sue Yanczura, Martins Ferry

**Bachelor of Art Education and Bachelor of Music Education** degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts

## College of Engineering

Dean: Donald D. Glower

### Bachelor of Science in Aeronautical and Astronautical Engineering

Robert George Ghawi, Beirut, Lebanon  
Jeffrey Joseph Rago, Trenton, NJ  
Timothy John Rozmajzl, Akron  
John Nick Skaramagas, Piraeus, Greece  
Mark Stephen Talpas, Canonsburg, PA  
Matthew Bruce Veness, Clinton, PA

### Bachelor of Science in Agricultural Engineering

Glenn Edward Mills, Wooster

### Bachelor of Science in Aviation

R. Geoffrey Bing, Dublin  
Frederick Eli Dowdell, Grove City  
Steven Harley Hayes, Toledo  
Bourbon Tom Jung, Sylvania  
Matthew Edward Miller, New Philadelphia  
Steven Nicholas Sacoolas, Lancaster, PA  
Joseph Gray Seaborn, Austintown  
Mark Werner Steinbicker, Beavercreek  
Nicholas Gene Tagliaferri, Jr., Wickliffe  
Tje Hauw Tjhin, Jakarta, Indonesia

### Bachelor of Science in Ceramic Engineering

Randall A. Novak, Mansfield  
Daryl Edward Stewart, Cincinnati

### Bachelor of Science in Chemical Engineering

James Christopher Allen, Lima  
Catherine L. Bothe, Horseheads, NY  
Michael Anthony Mendicino, Marietta  
Johnwei Muljono, Medan, Indonesia  
Abeer Maan Osman, Columbus  
Stephen Otero, Jr., Albuquerque, NM  
Michael John Smith, Perrysburg  
Minming Sungkono, Jakarta, Indonesia  
Amy Kathleen Turner, Columbus

### Bachelor of Science in Civil Engineering

John Andrew Piccin, Lansing

### Bachelor of Science in Computer and Information Science

Paul Mark Bradshaw, Columbus  
Yik Oon Chew, Ipoh, Perak  
Christopher Donofrio, Dayton  
Rodney Shane Ferryman, Columbus  
Kusuma Lienandjaja, Bogor, Indonesia  
Benjie Martin Peterson, Perry  
Kristina Tiara, Surabaya, Indonesia  
Richard Michael Van Schaik, Columbus

### Bachelor of Science in Electrical Engineering

Adel Ben Abdennour, Kebili, Tunisia  
Robert Joseph Berg, Parma Heights  
David Alan Bradley, Columbia, MO  
Veera Chupongstimun, Bangkok, Thailand  
Christopher John DeMattio, Steubenville  
Maria Theresa Dennis, Cincinnati  
Thomas Everett Foltz, Millersport  
Douglas Ray Hoover, Jr., Hilliard  
David Clement Kehres, New Washington  
Stuart Irvin Libby, Belgrade, ME  
Viet Quoc Mai, Columbus  
Eric James Mitchell, Austintown  
Jon Blair Schneider, Marietta  
James Wiley Sharp, West Palm Beach, FL  
Thomas Dean Thompson, Norwalk  
Douglas Scott Wallis, Powell  
Thomas Luke Wible, Dayton  
Holly Gay Wirth, Middleburg Heights  
Jeffrey Raymond Zeuner, Warren

### Bachelor of Science in Engineering Physics

Chad David Bryant, London  
Richard Joseph Kasica, Finderne, NJ  
Moazzam Khan, Karachi, Pakistan  
Francis Albert Kralick, Massapequa Park, NY

### Bachelor of Science in Industrial and Systems Engineering

Britton David Sweet, Cleveland Heights  
Connie Chih-Shun Tseng, West Chester  
Michelle Lynn Tucker, Cincinnati  
Jill Marie Winn, Parma

### Bachelor of Science in Mechanical Engineering

Craig Robert Bergman, Minster  
Dina Celeste Birrell, Steubenville  
Sheri Lynette Eikleberry, Columbus  
Craig Alan Foster, Batavia  
Michael Alan Garabrant, Johnstown  
James David Heft, Lewisville  
John Bowman Kerr, Hilliard  
Todd Allen Lautzenheiser, Louisville

Timothy Allen Leet, Mentor  
Eric Richard Roman, Bay Village  
Stuart S. Schlotterbeck, South Charleston  
Jeremy George Sines, Leetonia  
Douglas Mark Terrill, Bedford

### Bachelor of Science in Metallurgical Engineering

David Allen Nagy, Worthington  
Brian Edward Placzankis, North Olmsted

### Bachelor of Science in Surveying

Lois Ann Brunty, Columbus

### Bachelor of Science in Welding Engineering

Paul Michael Perozek, Cleveland  
Michael Glenn Topping, Pittsburgh, PA

## School of Architecture

### Bachelor of Science in Architecture

Terry Steven Bendrick, Dayton  
Eric Paul Eberhardt, Akron  
William James Harper, Jr., Painesville  
Barbara Lee Heskett, Elkins, WV  
David Lawrence Krebs, Bay Village  
Darryl Glenn Rogers, Beavercreek

### Bachelor of Science in Landscape Architecture

Kelly R. Bassett, Dublin  
Jose Juan Castrejon, Mexico City, Mexico  
Lawrence Brittain Elswick, Beverly  
Paul Andrew Taylor, Sunbury  
Michael Paul Walther, Avon Lake

## College of Human Ecology

Dean: Lena Bailey

### Bachelor of Science in Home Economics

Felicia Brynn Alter, Columbus  
Lori Ann Babcock, Gahanna  
Rebecca Marie Bahn, Ashland  
Laura Baynes, Mt. Sterling  
Erica Lee Benjamin, Sylvania  
Clara Eileen Brown, Columbus  
Joann Cautin, Sylvania  
Marissa Dawn Christoff, Lima  
Robert Allen Fyffe, Columbus  
Amy Patricia Gersman, Parkersburg, WV  
Monica Lynn Grill, Steubenville  
Lisa Sue Hammond, Reynoldsburg

Michelle Anne Hartle, Kenton  
Kathleen Ann Heeg, Columbus  
Lisa Close Hess, Columbus  
Lori Karen Hofmann, Cincinnati  
Mark Henry Johnson, Warren  
Saundra Jo Kauber, Pataskala  
Kristi Lynn Krebs, Streetsboro  
William Patrick Kyle, Cleveland  
Laryssa Leah Lackman, Apple Creek  
Michelle Kaye Leffel, Newark  
Jamee Lynn Lewis, Columbus  
Christina Marie Meyer, Wilmington  
Sue Ling Moy, Middleburg Heights  
Mary H. Nicolosi, Columbus  
Phyllis Rea Pennington, Westerville  
Jennifer L. Reed, Columbus  
Judith Ann Rich, Cleveland  
Ingrid Karen Richards, Trinidad,  
West Indies  
Stephanie Sue Romig, Dennison  
April Joan Root, Cincinnati  
Amy Renee Roseman, Willoughby  
Amy Lynne Schuman, Dayton  
Dana Ann Sernel, Chardon  
Tamara Sue Siegel, University Heights  
Cheryl Dawn Smith, Westerville  
Jennifer Lynn Sprague, Lima  
Felicia Dawn Starcher, Uniontown  
Amy Sullivan, Dublin  
Lori Joy Teitel, Cleveland Heights  
Shelly Lynn Terman, Toledo  
Lisa Gay Tuxhorn, Beavercreek  
Michael Christopher Vivio, Kettering  
Melanie Ann West, Marengo

**Bachelor of Science in Hospitality  
Management**

Dawn Michelle Beard, Urbana  
Cheryl Lynn Bergsman, Birmingham, MI  
Robert Lee Bowman, Springfield  
Timothy Joseph Boyer, Columbus  
Elizabeth Nicole Canestraro, Minerva  
Stephen Bernard Chaykowski, Montua  
Daniel Brian Folk, Columbus  
Susan Regina Franke, Columbus  
Darlene Lynn Frasher, Kent  
Nicolas Elie Kurban, Columbus  
Howard Jeffrey McFarland, St. Clairsville  
Kathleen Ann Oravec, San Antonio, TX  
Lawrence Christopher Penick, Shadyside  
Christina L. Peterman, Mentor  
Suellen Sandwisch, Oak Harbor  
Mitchell Scott Seifert, South Euclid  
Kelly Anne Steward, Marion  
Janette Marie Subler, Versailles  
Carolyn Joan Tiernan, Solon  
Rita Ann Westhoff, Columbus

**Bachelor of Science in Nutrition**

Susan Marie Brennan, Tallmadge

**Bachelor of Science in Restaurant  
Management**

Anthony Perry Thomas, Cincinnati

**College of Medicine**

Dean: Manuel Tzagournis, M.D.

**Doctor of Medicine**

Kurt Thrall Stroebel, Worthington  
B.S. (Bowling Green State University);  
M.A.

Lynn Marie Thomas, Largo, FL  
B.S. (University of Notre Dame)

John Michael Weeman, Orrville  
B.S.

**School of Allied Medical  
Professions**

**Bachelor of Science in Allied Health  
Professions**

Grace M. Coleman-Jindra,  
Middleburg Heights  
Diana Adkins Combs, Whitehall  
Gayle Ann Jaros, Bedford Heights  
Marilyn Ann Proctor, Columbus  
Tina Marie Romeo, Shinnston, WV  
Debra DeAnn Sinclair, Greenwood, WV  
Gail Iris Smith, Cincinnati  
Clarice Dawn Spiss, Nelson Township  
Janice L. Sukash, Massillon

**Certificate of Nurse Anesthetist**

Laura Louise Depas, Winterville  
B.S.Nurs.

Mary Carol Fortunato, Westerville  
B.S.Nurs. (Wheeling College)

Daniel Robert Maldovan, Parma  
B.S.Nurs.

Richard Alan Pence, Columbus  
B.S.Nurs.

Veronica Lynn Zawada, Springfield  
B.S.Nurs.

**College of Nursing**

Dean: Carole A. Anderson

**Bachelor of Science in Nursing**

Melanie Ann Craig, Loudonville  
Kathy Ann Dougherty, Pataskala  
Wendy Suzanne Hartman, Englewood  
Janet Lee Moore, Cortland  
Jennifer Lynn Moore, Shiloh  
Jennie Maria Saunders, Columbus  
Susan Joanne Wilbur, Mansfield  
Gail Kathleen Wood, Mansfield

**College of Pharmacy**

Dean: John M. Cassidy

**Doctor of Pharmacy**

Mark Franklin Bonfiglio, Toledo  
John Edward Folstad, Vernon, CT

**Bachelor of Science in Pharmacy**

Falguni Kris Bhatt, Columbus  
Brian Dean Blocker, Barberton  
Kimberly Ann Boian, Amherst  
Patricia Raye Buchanan, Canton  
Anthony Duane Carr, New Matamoras  
Steven Michael Crainich, Dayton  
Michael F. Darson, Columbus  
Gail Elizabeth Day, Columbus  
George Harlan Day, Columbus  
David Michael Dzion, Parma  
Michael Joseph Gabriel, Salem  
Amy Lynn Green, Amanda  
Helen Kathleen Hess, Elyria  
Heidi Lynn Johnsen, West Chester  
Jennifer Lynn Kibbey, Columbus  
Karol Ann Kovach, Sebring  
Lisa M. Marmon, Massillon  
Valorie Jayne Miille, Cincinnati  
Joseph Michael Mink, Copley  
Rose-Ann Mondora, Boardman  
Carole Sue Novak, Hubbard  
Shelly Renee Puthoff, Celina  
Jeffrey Louis Reindl, Heath  
Nicholas Scott Serb, Richfield  
Christopher Paul Smith, Sandusky  
Jon Douglas Staschiak, Findlay  
David Michael Tamulonis, Youngstown  
Dorothy Elaine Urbank, Cuyahoga Falls  
Jason Todd Weihl, Marietta  
Roy Clement Wiff, Canfield  
Douglas Vernon Yeager, Warren

**College of Social Work**

Dean: Richard E. Boettcher

**Bachelor of Science in Social Work**

Peter Edwin Fowler, Parma Heights  
Joseph Edward Marsano, Crestline

**College of Veterinary  
Medicine**

Dean: Ronald A. Wright

**Doctor of Veterinary Medicine**

Barbara Sherman Simpson, Columbus  
A.B. (Saint John's College);  
M.S. (Towson State University);  
Ph.D. (University of North Carolina)

## Graduates with Honors

Criteria for graduating with honors are as follows:

**Summa Cum Laude** designates those graduating in the top 3% of the class.

**Cum Laude** designates those graduating in the top 10% of the class.

**With Distinction** requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

**With Honors in the Liberal Arts** requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

**With University Honors** designates those graduating with circricular distinction and dedication to high educational goals.

### Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Political Science

Cynthia Marie Newberry

### Summa Cum Laude with Distinction in Mechanical Engineering

Dina Celeste Birrell

### Summa Cum Laude with Distinction in Natural Resources Development

Kimberly Anne Baker

### Summa Cum Laude with Distinction in Sociology

Kimberly Kay Dill

### Summa Cum Laude with Honors in the Liberal Arts

Amy Lynn Betz  
Thelma Rosario Butts  
Jennie Louise O'Connor

### Summa Cum Laude

Alan James Bell  
J. Craig Blaine  
Susan Marie Brennan  
Barbara Ann Byerly  
Paula Lee Chamblin  
Lisa Lynn Conant  
Kathi Ann Earnest

Michael Joseph Ferguson  
Karl James Frey  
Adam Frix  
Ellen Jean Fundermark  
Andrea Kari Gibbs  
Greg Robert Grabovac  
Wendy L. Gregory  
Frances Louise Haldar  
Neil Douglas Harder  
Gary Lynn Hart  
Gail Lynn Johnson  
Michael Patrick Keegan  
David Clement Kehres  
Susan J. Kielmeyer  
Masami Mitsui  
Jenifer Lynn Moore  
David Allen Nagy  
Deborah Harter Pfahl  
Timothy John Rozmajzl  
Nancy Anne Siefker  
Stéphane Joseph Spoiden  
Matthew Bruce Veness  
Melanie Ann West  
Kimbra Marie Winnestaffer  
David Edward Woods

### Cum Laude with Distinction and Honors in Pharmacy

Carole Sue Novak

### Cum Laude with Distinction in Agricultural Mechanization and Systems

Todd Dean Stockwell

### Cum Laude with Distinction in Recreation for Special Populations

Laurie A. Ashline

### Cum Laude with Honors in the Liberal Arts

Timothy Lee Murray  
Kristin Michelle Rose

### Cum Laude with University Honors

Betty Glassmeyer  
Yvonne Lynn Goddard

### With Distinction in English

Brenna Jeanne Ryan

### With Distinction in Mechanical Engineering

Eric Richard Roman

### With Honors in the Liberal Arts

Laura Annette Amsbary  
Christopher David Lima  
Charles Edward McGroarty

### With University Honors

Steven Berg  
Catherine L. Bothe  
Christopher John DeMattio  
Brad J. Fehn

### Cum Laude

Michael Darin Alter  
Craig Robert Bergman  
Cheryl Lynn Bergsman  
Brian Dean Blocker  
Michelle Lori Bloom  
Robert Lee Bowman  
Julie Lynn Brown  
Brenda Kay Dalton  
Micheal F. Darson  
Jennifer Ruth Davis  
Lynne Marie Dougherty  
Kerrie Lucille Dugan  
Jude Anthony Fiorini  
Janet Marie Foley  
Craig Alan Foster  
Bonnie Lynn Foster-Spear  
Todd C. Frankel  
Krista Lynn Gerhart  
Laura Kathleen Gigas  
Renée Lisette Graxirena  
Tom Paul Gutmann  
Tamara Ann Hampton  
James Paul Harlan  
James David Heft  
Frederick Paul Houston  
Stephen W. Igo  
James Edward Kloenne  
Karol Ann Kovach  
Timothy Allen Leet  
Michael Anthony Manocchio  
Amy Lynn Nelson  
Nancy Suzanne Nibert  
Barbara Ann O'Neil  
James Paul Peck  
Karen Elizabeth Peters  
Eric William Rapp  
Ingrid Karen Richards  
H. Edward Roberts, Jr.  
Dolores Frances Shapiro  
Todd Alan Sheets  
Susan Kay Shoaf  
Jennifer Margaret Speicher  
Mary E. Stichter  
Lisa Elaine Stoneburner  
Wendy Leigh Swonger  
Paul Frederick Woodrow  
Shu-Fang Yeh  
Debora Lynn Yurek  
Doug Robert Zaper, Jr.





THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTY-FOURTH MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, October 6, 1989

The Board of Trustees met at its regular monthly meeting on Friday, October 6, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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October 6, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on October 6, 1989, at 11:05 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Leslie H. Wexner, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

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Mr. Berry:

First, we have a special report from Dr. John Kramer, Chairman of the University Hospitals Board.

### **HOSPITALS BOARD REPORT**

Dr. Kramer:

Good morning. Having recently completed my first term as Chairman of the Hospitals Board, I felt I should report to you on the current status of the Hospitals and share with you our perceptions of the challenges and opportunities that lie ahead.

Before I proceed with my comments, I would like first to express my gratitude to each of the Hospitals Board members for their dedication, energy, and willingness to give of their time and expertise for the benefit of the Hospitals and the patients we serve. Our acknowledgements would not be complete without special mentions to Dr. Manuel Tzagourmis; University Administration; Reed Fraley and Hospitals Administration; Medical Director Dr. Hagop Mekhjian; and Jim Nichols, our University Treasurer who did an outstanding job of shepherding the Hospitals as Interim Executive Director. And we would certainly be remiss if we failed to acknowledge the consistent, strong support we have always enjoyed from the University Board of Trustees.

In preparing for this report, I discovered the following quote taken from President Harold Enarson's opening statement to the Hospitals Board in May of 1980:

"OSU Hospitals face many of the same problems haunting community hospitals everywhere -- rising costs along with rising expectations and rising resistance to cost increases. They face other pressing problems such as governmental regulation, shortages of health professionals, and the thrust toward increased litigation."

Those words are as true today as they were almost ten years ago. Clearly the current environment presents significant challenges to our Hospitals and the entire healthcare industry. But I believe there is also good news: The Ohio State University Hospitals are continuing to provide an excellent environment for teaching new generations of healthcare professionals; our researchers are exploring new frontiers of knowledge in the health sciences; and we are moving ever forward toward recognition as one of the premier university medical centers in the nation. Strong, innovative leadership from the Hospitals and the University have brought us to our current prominence, and must continue as we meet serious challenges and move toward even greater recognition.



## HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

The first part of my report concerns the present state of the Hospitals with regard to its mission of teaching, research and patient care. As you know, we are among the largest university teaching hospitals in the nation. In providing clinical experiences for medical, dental, pharmacy, allied health and nursing students, residents and fellows, and in fulfilling our trust to provide high-quality, comprehensive healthcare for the citizens of Ohio, we offer a range of services far beyond that of community hospitals. For example, University Hospitals transplants human hearts and other organs and tissue; we care for mothers with high-risk pregnancies and provide the highest level of intensive care for their babies, some of whom are extremely premature and critically ill; we offer a Level One trauma center with helicopter transport and 24-hour staffing of specialists; we provide comprehensive care for the physically and mentally impaired; we help restore sight with delicate eye surgery; we treat athletic injuries through our sports medicine program; and we have a special center to diagnose and treat sleep disorders. Our physicians use the most advanced lithotripsy for non-surgical removal of gallstones; we are the only facility in central Ohio capable of providing the intensive care needed by critically burned adults; our Gait Laboratory offers non-invasive evaluation of patients' walking patterns to help physicians choose the best treatments; we offer sophisticated diagnosis through computer-assisted Magnetic Resonance Imaging scans; and in the new Davis Center we can provide comprehensive care for our older citizens. Cancer patients and a growing number of AIDS patients find care and compassion at our Hospitals. We provide free healthcare information to the community through the Ask-A-Nurse program. Under the auspices of the Columbus Health Department we provide professional medical services at six neighborhood health centers. And we are reaching out to the community with healthcare services through our MedOhio facilities and mobile mammography van.

On an average day in 1988-89 we were caring for more than 625 in-patients, many of whom were critically ill. Last year we had 29,417 admissions; more than 280,000 Clinic visits; and 40,421 Emergency visits. We performed more than 1.7 million clinical laboratory procedures and filled more than 3 million prescriptions. Our physicians took care of 14,443 surgical patients and delivered 3,570 babies.

Even a procedure as dramatic as heart transplants is becoming almost routine at University Hospitals. To date, our transplant surgeons have implanted 44 donor hearts.

The number of kidney transplants at University Hospitals averages about 150 per year, and actually exceeds the number of appendectomies. We are ranked among the ten largest and most successful kidney transplant centers in the United States, and the largest among the six located in Ohio. I am proud to report our success rate with living, related donors fluctuates between 90 and 95 percent.

Our bone marrow transplant service continues to be recognized as truly outstanding. Since there are different types of leukemia and different risk groups within each type, it is impossible to quote a single percentage to indicate our cure rate. But I can tell you that The Ohio State University Hospitals' bone marrow transplant program has the highest reported survival rates anywhere in the world.

## HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

Our division of Maternal-Fetal Medicine includes the Prenatal Diagnosis Program, the largest in the state. Three specific early diagnostic procedures performed here are available at only one other facility in the state. And even though it was almost beyond imagination only a few years ago, Ohio State physicians now provide blood transfusions and perform life-saving surgery on babies still in the womb.

A careful analysis of mortality data compiled and released by the federal Health Care Financing Administration (HCFA) reveals that University Hospitals' mortality rate is the lowest among area hospitals and also the lowest reported among our sister Big 10 institutions. At the same time our acuity rate, which measures the severity of illness of our patients, is the highest in the community and among the highest in the nation. Our mortality rate compares favorably among university teaching hospitals nationwide, and is lower than other prestigious hospitals in the country. The Ohio State University Hospitals has been identified by various publications as being 28th lowest and 18th lowest in mortality in the nation. At this point we should note that the hospital boasting the country's lowest mortality rate is an Eye, Ear and Throat Hospital in New York with no emergency patients, no cardiac patients, no transplant or intensive care units. We believe these federally developed data give impressive evidence that the care provided at The Ohio State University Hospitals is as good as, or better than, any other hospital anywhere.

We were the first in Ohio to implant the Jarvik-7 artificial heart which keeps a patient alive until a suitable donor heart can be found. We are one of only two centers in the nation with on-site training for the Jarvik-7 surgical team. We are also one of few medical centers approved to use external ventricular assist devices which do not replace the patient's heart, but take over the ailing heart's pumping action and thereby give it a chance to recover.

Strong emphasis has been placed on advancement of research. Last year the College of Medicine was awarded a total of \$26.7 million in research grants, an increase of 18.1 percent from the previous year. The College of Medicine, the School of Allied Medical Professions, the Hospitals, and our Department of Pediatrics located at Children's Hospital, together attracted almost \$36 million in research funding. Included in that total is \$1.7 million from the National Institutes of Health to study whether diet and blood pressure control can help stop or slow chronic kidney disease. We are the only medical center in Ohio and one of 15 in the nation taking part in the study, which is the largest clinical kidney study ever undertaken by the National Institute of Health.

University Hospitals is the only place in the nation performing a dramatic type of surgical technique to help fight colon cancer that has spread to the liver. Preliminary results are very promising. We are also one of five medical centers in the nation participating in clinical trials for an experimental eye operation for cataract patients.

Now let us turn to the realities of operating a major tertiary care hospital in the current environment. In the early 1980's, in an attempt to curb expenditures and reward efficiency, federal and state governments initiated a prospective payment system of reimbursement for Medicare and Medicaid patients. DRG's (diagnosis related groups) are used to determine the amount of reimbursement hospitals receive for providing care to patients with specific diagnoses. Additionally, third-party payers began to specify certain procedures that now would be reimbursed only

## HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

on an outpatient basis. The ever-increasing shift toward outpatient care means that fewer patients are being hospitalized -- and those who are admitted are the most seriously ill. Since fewer patients are being admitted, we are now seeing intense competition among hospitals who depend on patient volume for their very existence.

To put all this in perspective, we need to keep several things in mind. First, University Hospitals has a disproportionately high number of Medicare and Medicaid patients (a combined total of 43 percent of the patient mix), which makes us more vulnerable to constant erosion in governmental reimbursement rates. For example, for care we provided last year to Medicare and Medicaid patients, our total reimbursement will fall approximately \$17.5 million short of charges -- and this balance is not recoverable from any source. Second, hospitals are often excluded as providers for managed-care networks unless they are prepared to discount their usual charges by as much as 20 percent, which is the discount we provide to the University Health Plan. Third, an added threat to teaching hospitals is the fact that federal support for medical education has declined dramatically and the downward spiral is expected to continue. Fourth, while other hospitals can choose not to offer a program they know will lose money, University Hospitals must continue to offer the broadest range of patient care -- both to honor our obligation to the citizens of Ohio and to ensure that our students will be exposed to all types of illnesses and patients as part of their clinical education. Finally, as an academic institution our traditional inclination has been to disdain competing in the marketplace, choosing instead to allow our expertise to speak for itself. This attitude is changing and we are now implementing a marketing program for the medical center.

Judge Robert Duncan, in his 1981 report to the Trustees, referred to "the national nursing shortage." The shortage is now acute. Although 80 percent of the nation's two million registered nurses are working (as compared with 54 percent of women in the total workforce) the demand for nurses continues to rise. Early this year we appointed a Nursing Task Force to address the problem and recommend possible strategies for developing, recruiting and retaining nursing professionals. Some of those recommendations are reflected in the University's contract agreement with the Ohio Nurses' Association; others are in the process of being implemented by Mr. Fraley. These strategies include some innovations which, if successful, will serve as a model for other hospitals in this nation.

Mr. Dean Jeffers reported to you in 1983 that the Hospitals' Revenue and Expense budget was approximately \$165 million. This year's budget is just over \$230 million, even though the number of Hospitals employees has been reduced and operating costs have been cut as much as possible without compromising quality. The Hospitals Board is firmly committed to operating the Hospitals on a break-even or better budget, with the understanding that very close budgeting will produce a bottom line that is positive in some years and negative in others. Our intent is to generate enough money to meet our obligations, maintain our facilities -- and still hold charges low enough to remain competitive. We must preserve this delicate balance, especially in light of recent market share reports that indicate our relative share of patients has declined over the past four calendar years while certain of our competitors, using aggressive marketing programs, have made impressive gains in both actual numbers and market share. Although the Franklin County population is

## HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

projected to grow by five percent, the number of hospital admissions will decline because of changing trends in healthcare delivery.

Two years ago the Hospitals ended the fiscal year with a net loss of \$1.6 million; this past year, although we anticipated a \$1.9 million loss, the actual loss was \$1.1 million. A considerable part of those losses was due to unexpectedly high costs associated with the University's Early Retirement program and the utilization of agency nurses. Again this year we have approved a budget we anticipate will fall just short of break-even. Mr. Fraley and his staff have initiated an aggressive plan to reduce Accounts Receivable and strategies to improve investment returns, in addition to ongoing cost-containment programs. We are confident that our Strategic Plan, coupled with strong leadership and careful management, will carry us through this adversity.

What lies ahead? In such a complex environment, assumptions can be perilous at best. However, let me share a few insights we feel will shape medical education and healthcare delivery during the next decade.

Approximately one of every six hospital admissions across the nation is to a teaching hospital. In fact, teaching hospitals provide the bulk of this country's uncompensated medical care. Thirty-seven million Americans have no healthcare insurance. Despite aggressive educational campaigns, millions continue to jeopardize their health through smoking, drug abuse, alcoholism and obesity. The elderly are the fastest-growing segment of our population. In the future we will need more disease-prevention programs and more emphasis on dealing with long-term and chronic illnesses.

A major concern, of course, is the soaring cost of healthcare services. Healthcare accounts for one out of every eight dollars in the Gross National Product -- and is growing at a rate 50 percent faster than other sectors of the economy. Escalating expenses for healthcare have triggered heated disputes between labor and management. Insurance premiums in the private sector are rising by 10-20 percent each year, and the elderly are increasingly pressed to afford the added costs of needed care. Various initiatives by government and private industry to curb runaway costs have been unsuccessful, and increasing frustration has led to renewed calls for change.

Some medical executives urge that healthcare providers compete on the basis of quality, and undoubtedly we will see increasing demands for documentation of appropriate levels of quality and cost containment. Quality has many facets; it includes access, timeliness, efficient use of technology and accepted principles of medical science, sensitivity, confidentiality, optimal outcome, patient satisfaction, and documentation to allow continuity of care and peer evaluation. What about the appropriateness of specific services? Is it more ethical to preserve life at all costs for a few weeks or months, or should we spend our resources where they produce the most benefit? According to the Boston Globe, 85 percent of all healthcare expense for the average American occurs in the final two years of life.

## HOSPITALS BOARD REPORT (contd)

Dr. Kramer: (contd)

University teaching hospitals are the source of our nation's skilled physicians, nurses and allied professions; sophisticated patient care; and breathtaking technological developments. In today's environment we are facing enormous challenges to our unique mission of teaching, research and patient care. We are mindful of the need to maintain the highest levels of quality while remaining competitive and continuing to provide the wide scope of absolutely essential services. To ensure these broad responsibilities are accomplished, we have charged Hospitals Administration with implementing and constantly updating the Strategic Plan in cooperation with the College of Medicine. Current initiatives in centralized billing and changes in Ambulatory Surgery are expected to contribute to improved patient convenience and satisfaction. During the months and years to come, we will propose additional initiatives that become necessary to protect and enhance our position. Some of those most likely will take the form of an overnight lodging facility and a medical research building.

As you can see, the issues are complex and the stakes are high. There is an old adage that says character is not made, but only revealed, by adversity. As healthcare leaders to whom the public looks for solutions, we and other academic medical centers must be in the forefront in analyzing the current situation and charting the course with appropriate action. We believe University Hospitals are choosing effective strategies -- sometimes innovative and even revolutionary -- that will allow us not only to fulfill our commitment to the people of Ohio, but also help lead the way in resolving healthcare problems at the national level. With your continued support, we will succeed. Thank you.

Mr. Teaford:

Mr. Chairman, one other thing that I think we should point out is that in addition to the extraordinary amount of service that we get from the Hospitals Board, I want to particularly point out that Dr. Kramer who lives 100 miles from Columbus, comes once a week to the Hospitals to work at his job as Chairman. His service, I think, is invaluable to the Hospitals and to the University. I also want to point out one other thing he said. He said, "that the patients who come to Ohio State University Hospitals are sicker than any other patients who come to any hospital in this area. And we have the lowest death rate of any of those hospitals." To me, the bottom line, when you are going to the hospital, is that. And I think that is the absolute proof, beyond any doubt, that this is the best hospital in the area.

Dr. Kramer:

Thank you. I think the message is clear, if you are sick, you want to come to OSU Hospitals.

President Jennings:

John and Joel, I would like to second that. And John, on behalf of all of us, thank you. John has done an extraordinarily good job. He is extremely dedicated and his leadership has been very important to our Hospitals. Joel, I thank you for pointing that out.

## **HOSPITALS BOARD REPORT (contd)**

President Jennings: (contd)

I think another thing that should be pointed out, that is often forgotten, when Dr. Kramer was talking about the finances, that this is a hospital run with, for practical purposes, no state appropriations. Whereas most of the other teaching hospitals that John was referring to are, hospitals that receive some sort of state appropriation, some larger, some smaller. But this is a university hospital that we are asking, not only to do the research mission, teaching mission and the care mission, without a state appropriation. So the fact that budgets are, for practical purposes, balanced is also an accomplishment that very few other institutions can claim without the assistance of their respective states. John, we appreciate that and all of the staff has done a marvelous job on that, too, in financing this place without the help of the State.

Mr. Berry:

Thank you, Dr. Kramer. This Board, again, appreciates all the work that you and the other Board members do on behalf of University Hospitals. I think, Joel, what you were trying to say about when you are sick, go there -- everybody wants to go to heaven, but nobody wants to die to get there. So, go to the University Hospitals.

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## **RESEARCH FOUNDATION REPORT**

Mr. Barone:

Mr. Chairman, I would like to report on the Research Foundation Committee at this time. The Research Foundation grants and contracts for the month of August 1989, are shown in the Board agenda book. There are 169 awards listed which provide a gross income of \$14.1 million.

Funding for the first two months of the fiscal year is 23% ahead of last fiscal year at this time. Funding increases are noted for all sponsor sectors.

Some highlights of the awards are:

\$721,000 from the Midwest Universities Consortium for International Activities for an overseas training operation with the government of Indonesia.

\$184,000 from the Department of Education for the University's Upward Bound Program.

\$126,000 from the National Science Foundation for a study on arm and leg coordination of industrial robots in the Department of Electrical Engineering.

\$92,000 from the Department of Education for a Drug Prevention Program at Ohio State.

## RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

Thank you, that concludes my report. Dr. Thomas L. Sweeney, Acting Vice President for Research and Graduate Studies, is available to answer any specific questions you may have.

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## HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its Committees met on Thursday, September 28.

Medical Director Dr. Hagop Mekhjian reported on various issues under discussion by the medical staff. At the request of the Board, he reviewed the criteria and procedures used in the credentialing of medical staff applicants. Criteria are very strict and initial appointments are provisional. Annual reappointments include mandatory updating of information as well as a review of clinical performance during the previous year. We received a Quality Assurance report from the Department of Internal Medicine, and I might say that we get these reports monthly from the various departments and they, again, reflect what you were told before of the very high quality of care that the Hospitals provide. Mr. Fraley also updated us on the status of implementation activities as recommended by the Nursing Task Force. The most hopeful thing that he reported is that, indeed, we have increased the number of nurses on staff. I have very little doubt that the Task Force recommendations will continue to increase that. We have decided to find out what nurses want, and it is not money that they want. I think that that will yield great results.

The Administrative/Operations Committee reviewed the Hospitals' financial performance during the month of August, and received a progress report on reduction of accounts receivable. And, I am happy to say that they are coming along well. We were briefed on the status of various construction and renovation projects, as well. Dick Jackson pointed out to me yesterday that in a couple more months we will actually be in the circumstance where there will not be any external construction going on in the Hospitals area for the first time in the history of the world, I suspect. We learned that final construction work is being done, and equipment is beginning to arrive for the Cancer Hospital. And as you know, it is scheduled to open the first of the year. The Committee considered and endorsed a proposal for the management by The Ohio State University of the J. Leonard Camera rehabilitation facility. Which, as you all undoubtedly know, is located across Rt. 315 from the Medical facility. It is actually a spectacular looking facility -- which is more spectacular on the inside than out. And, it is largely unused to this point. One of the things that we will get is over 7,000 feet of space that will be available for the University's use. As I understand it we intend to put Sports Medicine and Cardiac Rehabilitation in there. It will be a marvelous facility for those programs. It is easy to reach, there is easy parking, and the facility, for complicated things, is almost unbelievable.

### **HOSPITALS BOARD COMMITTEE REPORT (contd)**

President Jennings:

Except it is in Illinois colors.

Mr. Teaford:

Yes. Well, I don't know about that yellow. Mr. Fraley reported that a review of market quotes indicates that purchase of commercial excess malpractice insurance would not be cost-effective for the Hospitals at this time, although it has gone down a little.

The full Board then met and endorsed the recommended medical staff appointments as well as the proposed management contract for the J. Leonard Camera Center. We heard a report from Dr. Michael Para, a faculty member nationally recognized for his expertise in AIDS treatment and research, addressed the Board about study protocols and research developments. Although the drug AZT has proven effective in slowing progression of the disease, researchers have not yet been able to find a cure. Lastly, we viewed a videotape of television news coverage featuring the Hospitals, and received a report on medical center development activities.

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### **INVESTMENTS COMMITTEE REPORT**

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as of September 15, 1989, as presented by Mr. Nichols. The value of the endowment portfolio was reported as \$299.6 million, and Mr. Nichols advised us that today the value of the Endowment has exceeded \$300 million.

Yesterday afternoon, members of the Investments Committee, along with other Board members, met with the equity advisors to review their performance for the year. We will do the reviews of the fixed income advisors on the afternoon of November 2, prior to our next Board meeting.

The Committee heard a report of an audit of Campaign Contributions conducted by the University Controller's staff and the results were positive.

That concludes my report, Mr. Chairman.

(See Appendix XVI for complete text of The Ohio State University Endowment Summary, September 15, 1989, page 345.)

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## ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning we heard from Dr. Jim Bishop on the Young Scholars Program, which is a youth program for minorities or low income children; they can be black, Hispanic, Appalachian or native Americans. The thing that makes this program so attractive is that it does guarantee admission to Ohio State University with financial aid.

The students are nominated for this program in sixth grade. The parents and students have to adhere to several guidelines that allow them to be eligible for the program and stay in the program throughout their junior high school and high school years. We currently have 600 students at a cost of \$1,700 per student. Full implementation of the program will be in 1994-95, at a cost of \$4 million, but we will have 2,280 students. I think that the most important thing is that we continue to support this program, I would hate to let these children down. They are really enthusiastic about the program. They have a 90% attendance rate, and that means that only 10% have dropped out, so obviously it is really attractive to them.

Did anybody want to add anything? A lot of Trustees have been involved in this.

Mr. Teaford:

I think we should note that Ms. Paige is, indeed, one of the counselors for the program -- has been for two years -- and has made a great contribution.

Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

### DISTINGUISHED SERVICE AWARDS

Resolution No. 90-32

Synopsis: The Academic Affairs Committee recommended the approval for two individuals to receive Distinguished Service Awards.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended two individuals for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipients:

James E. Chapman

Since his 1954 summa cum laude graduation from Ohio State's College of Law, James E. Chapman has accumulated a truly distinguished record of volunteer service to The Ohio State University. He graduated cum laude from Ohio State in 1953 with a bachelor's degree in business administration. He has continued a strong and supportive relationship with his college, providing astute counsel to the dean, faculty and staff on the future direction of the College of Law.

### **DISTINGUISHED SERVICE AWARDS (contd)**

#### **James E. Chapman (contd)**

A volunteer's support for an institution may be measured by his or her contributions of wisdom, work and wealth. Mr. Chapman has generously share all three with his alma mater. As chair of The Ohio State University's Cleveland Campaign, Mr. Chapman has taken the lead in enhancing the image of and the support for the University in the Cleveland area. In addition, his assistance and direction as Ohio State's new regional offices took shape in Cleveland and elsewhere have helped to advance the University's position as a leader in higher education throughout the country.

His value as a "goodwill ambassador" for his alma mater is beyond measure. He has helped to establish a warm place for Ohio State in the heart of Cleveland, effectively cementing common bonds of interest between Clevelanders and Ohio State.

As a volunteer leader at the national level, Mr. Chapman has brought his thoughtful guidance and spirit to the many deliberations of the National Campaign Steering Committee over the past few years.

His leadership and counsel have been invaluable to the University not only through the Campaign, but through The Presidents Club as a member of the Executive Committee and the Ohio State Alumni Club of Cleveland as well. In all of his activities on behalf of the University, Mr. Chapman has shown an enthusiastic interest and a selfless dedication.

Among all of Ohio State's many valued volunteers, Mr. Chapman exemplifies the unmistakable spirit of one who believes deeply in his cause, and feels it deserving of generous amounts of his time and effort. His level of commitment is truly rare. As a true partisan of Ohio State, James E. Chapman exemplifies its ideals of leadership, scholarship, and service, and its standards of excellence.

#### **Richard W. Trott**

Richard Trott began his study of architecture at The Ohio State University in the Autumn of 1955 and graduated in the Spring of 1961 summa cum laude. He compiled an outstanding academic record receiving virtually every honor awarded by the School. He received the Faculty Prize in Architecture in 1957, 1958, 1959, and 1960. In addition, he won the John Noble Richards Scholarship and the Joseph N. Bradford Memorial Scholarship. In his senior year he graduated first in his class and was awarded the AIA Medal, the Certificate of Merit from the Architects Society of Ohio, and the Produce Council Award. Finally, as a student he received honors in three national design competitions, and these awards not only recognized his abilities but enhanced the reputation of the School.

During his undergraduate years, in addition to compiling a distinguished academic record, Richard Trott was also a campus leader. He served as an officer of Ohio Stater's, and on various other student organizations including the Senior Class Committee, the Campus Life Conference, the Engineer's Council, the Student Leader Endowment Fund, the Student Chapter of the AIA, and was the Chairman of the Leadership Training Day. He was a member of Sphinx and Texnikoi. His activities while at The Ohio State University were an extraordinary blend of personal substantive growth and contributions to campus life.

## **DISTINGUISHED SERVICE AWARDS (contd)**

Richard W. Trott (contd)

The commitment to professional excellence and service to the University which Richard Trott established as an undergraduate has characterized his life to the present. He has generously contributed of his resources, time, and talent to the Presidents Club, the Symposium on a Quality Learning Environment, the Committee for Tomorrow of the College of Engineering, the Presidents Club Executive Committee of '88, and the Alumni Association. In 1985, as a member of the Committee for the 50th Anniversary Reunion of the Ohio State he designed the outdoor performance center in Browning Amphitheatre. Richard Trott received a Distinguished Alumnus Award in 1984 and was a Special Honoree at the 300th Commencement ceremonies in 1987. Although he has truly been a dedicated alumnus throughout his professional life, it has been through his contributions to the School of Architecture and his design of the Wexner Center that he has made his most significant and lasting contributions to the University. In respect of the School he has been a tireless and effective fund raiser and he was instrumental in launching the Graduate Associate program. Moreover, he has taught a design course each year, served on various juries and reviews, and he is a member of the School's Advisory Board. He has led efforts to strengthen the architecture library and he has vigorously promoted the School locally, and throughout Ohio and the nation. Indeed, he has served continuously as an informal advisor on all matters pertaining to the development of the School.

Richard Trott has made many important design contributions to the quality of the campus environment. However, none to date are comparable with the enormous effort and distinguished leadership that he invested in the design and construction of the Wexner Center. In many ways the building symbolizes his sincere love for and loyalty to his alma mater. The design excellence which the Center has achieved was driven by Richard Trott's desire to present the University with a landmark building.

Following Mr. Trott's graduation from The Ohio State University, he obtained a Master of Science degree from the University of Minnesota in 1963. Two years later he established his own architectural firm. Since that time he has become nationally recognized for his contributions to the field of architectural design and was named a Fellow of the American Institute of Architects in 1982, and was honored in 1986 with the Governors Award for Contribution in Fine Arts. He has participated in design symposiums at the University of Rome, the American Academy in Rome, and Harvard University; and has spoken at several international meetings of the International Council of Shopping Centers and at the COGEM International Retailing and Services symposiums. Mr. Trott has written articles which have appeared in a number of national professional and trade journals and he has served on both regional and national design juries. Under his design direction, his firm has won over eighty design awards, and was recognized in 1985, as the first ever Gold Medal firm in the State of Ohio. Among the firm's recognitions is the prestigious Progressive Architecture Award for the Wexner Center for the Visual Arts; the first Recchie Award for his firms' office building; the National Laboratory of the Year Award for the Sherex Chemical Company Headquarters; and twenty-six awards from the American Institute of Architects. Clients of the firm include many national corporations and developers as well as international organizations from Europe and Australia.

Richard Trott has made extraordinary contributions toward raising the standards of excellence in architectural design both in Ohio and the nation while simultaneously advancing the ethical norms of his profession. In the latter instance, examples of his pro-bono activities in the community have included service on the Citizens Advisory Committee of the MidOhio Regional Planning Commission, the Upper Arlington Planning Commission, the 1983 Committee for the Greening of Columbus, the Land Use Committee of the Columbus Chamber of Commerce, and participation and membership in numerous other professional and business organizations. Richard Trott has

**DISTINGUISHED SERVICE AWARDS (contd)**

Richard W. Trott (contd)

always discharged his service responsibilities with distinction and in accordance with the highest ideals of the public interest.

Richard Trott's career is characterized by unselfish devotion to his University, profession, and community while always demanding personal and professional excellence. The Ohio State University is sincerely grateful for his dedication and proudly commends the contributions he has made toward creating an enduring quality environment for living and learning.

and

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and the awards are in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Awards be approved for awarding as designated above.

President Jennings:

These are two people who have provided enormous service to Ohio State University, Jim Chapman, an attorney from Cleveland, and Dick Trott, an architect here in Columbus. We are very pleased to recommend these to you and I submit these names for your consideration. We would hope to be able to award these in December.

Upon motion of Mr. Teaford, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**PERSONNEL ACTIONS**

Resolution No. 90-33

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the August 23, 1989 meeting of the Board, including the following Appointments, Reappointment, Appointment of Chairperson of Department and Director of Center, Reappointment of Chairperson of Department, Leaves of Absence Without Salary, Leave of Absence Without Salary--Change in Dates, Professional Improvement Leave, Professional Improvement Leave--Change in Dates, and Emeritus Titles as detailed in the University Budget be approved.

Appointments

Name:	GARY L. FLOYD
Title:	Acting Dean
College:	Biological Sciences
Effective:	10/1/89 through 6/30/90
Salary:	\$79,200.00
Present Position:	Associate Dean, College of Biological Sciences and Professor, Department of Botony

## PERSONNEL ACTIONS (contd)

### Appointments (contd)

Name: ASTRID E. MERGET  
Title: Acting Dean  
College: Business  
Effective: 10/1/89 through 6/30/90  
Salary: \$110,040.00  
Present Position: Associate Dean, College of Business and Director, School of Public Policy & Management

### Reappointment

Name: CHARLES F. HERMANN  
Title: Acting Vice Provost  
Office: International Affairs  
Effective: 7/1/89 through 6/30/90  
Salary: \$96,480.00  
Present Position: Acting Vice Provost for International Affairs and Professor, Department of Political Science

### Appointment of Chairperson of Department and Director of Center

July 1, 1989 through June 30, 1990

Mershon Center  
Photography and Cinema

Charles F. Hermann  
J. Ronald Green\*

### Reappointment of Chairperson of Department

January 1, 1990 through June 30, 1993

Veterinary Physiology and Pharmacology

Young C. Lin

\*Acting Chairperson

### Leaves of Absence Without Salary

EIICHI BANNAI, Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at Kyushu University in Fukuoka, Japan.

MARC L. RAPHAEL, Professor, Department of History, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept the Gumenick Professor of Jewish Studies at William and Mary College.

LUCY D. VENABLE, Professor, Department of Dance, effective Autumn Quarter 1989, for personal reasons.

RAYMOND MONTEMAYOR, Associate Professor, Department of Psychology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a Visiting Associate Professorship at the Institute of Child Development, University of Minnesota.

October 6, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Leaves of Absence Without Salary (contd)**

MICHAEL D. ORLANSKY, Associate Professor, Department of Educational Services and Research, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, for personal reasons.

JULIA F. ANDREWS, Assistant Professor, Department of History of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to complete research articles and a book.

WADE T. DYKE, Assistant Professor, School of Public Policy and Management, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a White House Fellowship.

MARTIN HEESACKER, Assistant Professor, Department of Psychology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at the University of Florida.

ROSEMARY REISS, Assistant Professor, Department of Obstetrics and Gynecology, effective October 1, 1989, through July 31, 1990, for personal reasons.

JAMES C. TURNER, Assistant Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a position at Hampton University.

SUSAN P. VAN PELT, Assistant Professor, Department of Dance, effective Winter Quarter and Spring Quarter 1990, for personal reasons.

RAKESH V. VOHRA, Assistant Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1989, to accept a visiting professorship at the Wharton School of Business, University of Pennsylvania.

### **Leave of Absence Without Salary--Change in Dates**

SHIBLEY Z. TELHAMI, Assistant Professor, Department of Political Science, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Winter Quarter, Spring Quarter and Autumn Quarter 1990.

### **Professional Improvement Leave**

MARLIN L. LANGUIS, Professor, Department of Educational Theory and Practice, effective Spring Quarter and Summer Quarter 1990.

### **Professional Improvement Leave--Change in Dates**

S. M. TARIQ RIZVI, Associate Professor, Department of Mathematics (Lima Campus), change leave from Winter Quarter, Spring Quarter, and Autumn Quarter 1990, to Spring Quarter, Autumn Quarter 1990, and Winter Quarter 1991.

### **Emeritus Titles**

ROBERT J. LYNN, College of Law, with the title Professor Emeritus, effective October 1, 1989.

PEGGY K. HULL, Department of Life Span Process, with the title Instructor Emeritus, effective October 1, 1989.

### PERSONNEL ACTIONS (contd)

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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### RESOLUTIONS IN MEMORIAM

Resolution No. 90-34

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

#### Alexander Frazier

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on June 23, 1989, of Alexander Frazier, Professor Emeritus in the Department of Educational Theory & Practice.

A native of Arizona, Professor Frazier completed his B.A. (1932) and his M.A. (1933) in Education at the University of Arizona. Following study at the University of Mexico, University of Chicago, and Stanford University, he earned his Ed.D. from Teachers College, Columbia University in 1951. He taught in the Phoenix, Arizona, High School and served as Curriculum Director in the Los Angeles Schools, the Phoenix Schools, and the Houston Schools. Prior to coming to The Ohio State University, he was Assistant Superintendent of the Phoenix Public Schools.

Professor Frazier was employed as Director of the University Laboratory School and Professor of Elementary Education in 1958. During his twenty-year tenure in the College of Education, he played a leadership role in transforming the Laboratory School into a Center of School Experimentation. An excellent administrator and teacher, he was a prolific author. He wrote more than 150 journal articles and authored or edited eight books. Always an advocate for the poor and minority populations, one of his most noteworthy publications was Educating Children of the Poor, published by the Association for Supervision and Curriculum Development in 1968. His concern for these populations moved the entire College to examine admission and retention programs for minority graduate students. Professor Frazier was President of the Association for Supervision and Curriculum Development and held leadership positions in the National Council of Teachers of English and the National Laboratory School Administrators Association.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

#### Woodford W. Zimmerman

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 20, 1988, of Woodford W. Zimmerman, Associate Dean and Associate Professor Emeritus in the School of Music (Lima Campus).

## **RESOLUTIONS IN MEMORIAM (contd)**

Woodford W. Zimmerman (contd)

Professor Zimmerman was born May 15, 1933, in Lexington, Kentucky. He graduated from Wilbur Wright High School in Dayton, Ohio, and then matriculated at The Ohio State University where he was awarded a Bachelor of Science in Music Education degree in 1955, a Master of Arts degree in 1962, and a Doctor of Philosophy degree in 1969.

Professor Zimmerman was a music instructor and Supervisor of Music in the Marysville, Ohio, schools from 1957 to 1961 and music teacher in the Bexley, Ohio, schools from 1961 to 1964. He then came to Ohio State and served as a research assistant during the 1964-1965 academic year and a Graduate Teaching Associate during the 1965-1966 year. He joined the faculty at The Ohio State University in Lima as an Instructor of Music in 1966, and was appointed Associate Dean at Lima in 1970, and remained there until his retirement in 1986. He then assumed the position as Director of Undergraduate Studies at Florida Atlantic University.

Woody was most active professionally and musically during his time at Lima. He was an active member of the Music Educators National Conference, the Ohio Music Education Association, Phi Delta Kappa, and Pi Kappa Lambda. He organized the music program upon his arrival at Lima and was most proud of the breadth and scope of the music program, which still bears his mark. His contribution to the cultural activities in Lima were significant, serving as a member of the Lima Symphony Orchestra Board of Trustees and as Director of the Lima Symphony Orchestra Chorus. He will be remembered for his many years of loyal and dedicated service to the University and the community in Lima.

On behalf of the University community, the Board of Trustees expresses to the family of Professor Zimmerman its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## **STUDENT AFFAIRS COMMITTEE REPORT**

Mr. Barone:

At this time I would like to call on Steve Diebert for the Interprofessional Council report.

Mr. Steve Diebert:

Good morning. For the past few months I have had my vice president fill in for me because I have been in those great University Hospitals that we were talking about earlier. I think that they have a great third-year program where we pay a couple of thousand dollars a quarter and they work us 100 hours a week. That works pretty good.

President Jennings:

That's not enough, Steve -- work that is.



### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Diebert:

My report to you will be pretty brief this morning, since our first meeting will just be next week. This is due to a lot of the professional schools starting late this year. Last year was a building year for us, a year in which we put in place the facilities in which to establish continuity. As of July of this year, the office was working great. We had a computer in place and a thorough filing system going quite well. However, within the past couple of months a water pipe burst above the ceiling of the office, came straight down on the computer and it was not found until water was leaking into the bookstore below our office. The repairs are underway and we hope to be operating in full tilt by the end of the month.

We also expect to receive our allocation monies within the next few weeks, although we have some concern about a 5 percent cap they put on funding where an organization cannot raise a request for funding above 5 percent. Like I had mentioned, we are a building organization and we are trying to play catch up ball and then move on ahead. The 5 percent will be fine after this year, but we have a lot of things that we still have to do and we need more than a 5 percent increase. We are trying to create the proper working environment, one that we can effectively project to the professional students. Holding us to that 5 percent would be penalizing us for the lack of work displayed by previous IPC administrations. I have been informed that it has been recommended that this 5 percent cap be waived by the Allocations Committee, but it still has to pass the head of CSA.

Luke, Dave, and myself have currently been working on the system to select next year's Student Trustee member. This looks like it is going to be on schedule and there shouldn't be any problems there.

The IPC is planning a conference on terminal illness to be held November 11, in the Union. The conference places many professional disciplines into groups to discuss the ethics involved in dealing with the terminally ill.

Concerning loan disbursement, I would like to let the Board of Trustees know that it took me seventeen minutes to get my loan and pay my fees. As I told President Jennings earlier, it is like when you watch the weather and the weatherman tells you to expect a blizzard and you end up getting a pleasant day. Thank you.

Mr. Barone:

Thank you, Steve. I would like to call Luke Evans, Council of Graduate Students.

Mr. Luke Evans:

Good morning. Autumn Quarter is here again and we are off to a flying start. We have already had our Graduate Student Orientation. We had 400 new entering graduate students attend. They had the pleasure of hearing words of wisdom from Professor George Martin, who is an awardee of Distinguished Research here at this University, and from Professor Ann Souther who is an awardee of Distinguished Teaching, as well as having the benefit of a panel discussion of graduate students who are soon to graduate with Ph.D.'s. We advised them on basic survival techniques that are essential, right from the beginning of one's program -- from choosing the right academic advisor, to parking safely on football Saturday's without getting your car towed. We think it was quite successful and we are pleased that many of the students that participated thought so as well.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

This coming winter we are planning a grant proposal writing workshop to help give graduate students who are in the middle of their programs helpful hints on how to successfully write grant proposals. This is coming at a time when we will gain access to a Stanford University data base that yields funding opportunities for graduate students. This was brought to our attention by Tom Sweeney, Office of Research and Graduate Studies. We are very pleased about this opportunity to give graduate students an opportunity to fund their research. Some of the examples that the data base brought forward -- on a couple of cases, graduate students would present their ideas and would receive anywhere from 70 to 100 opportunities to get their research funded in their particular area. We think this will be fine addition to graduate education.

In the Spring Quarter we are already gearing up for our Graduate Research Forum. This is the granddaddy of our events. This gives graduate students at Ohio State an opportunity to present the results of their research conclusions in a conference-like setting and earn opportunities to win cash awards. We usually require the assistance of approximately 100 faculty members at this institution and at many institutions across the country to be judges in this event. We have had nothing but praises from the participants, both faculty and students, about how this can contribute to increasing the quality of graduate education. Graduate students seem to receive a great boost of confidence when they have the opportunity to present their research in this type of setting. Many universities across the nation are modeling similar events based upon our program.

Some of the issues that we are currently focusing on deal with the quality of student mentoring. We are concerned about the length of time it takes for a person to earn a Ph.D. That is increasing more and more each year. When we consider the cost of getting a graduate education, both in terms of actual cost and opportunity cost, it is imperative that we look closely at the quality of student mentoring and the length of graduate programs. I know for many people the opportunity cost is in the six figures. It takes 6-7 years to earn a Ph.D., that can climb high.

We are also focusing a lot on health care issues. We are concerned that graduate students are paying \$89.00 a quarter for health insurance. But a single graduate student with a dependent has to pay \$278.00 per quarter. We have heard news already that one student in that situation is dropping out of graduate school because of that. We are trying to contact that student so that we can help that student find alternative means of financing. Those are not the stories we like to hear. We are very concerned about health insurance, especially for the people who are single and have dependents, because these people may need graduate education the most.

We are also working actively with minority groups around campus. We are adding the President of the Hispanic Graduate and Professional Student Caucus to our executive committee so that we have a direct pipeline into the issues that are facing Hispanic Americans. We are also working with Asian Americans and Native Americans to develop their particular graduate/professional student organizations, so that they can be members of our executive board and we are not oblivious to their concerns. We are even going beyond that -- the members of our organization are attending their meetings on an active basis and becoming members, so that we have communication in both directions. We don't think it is enough just to invite people to our committees, we want to become actively involved in their

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

organizations so that we can be fully apprised of their concerns.

That is basically it. I am now off to Notre Dame. I will be attending a NAGS regional conference. It is the Midwest Regional Conference and on this occasion I will have a chance to meet with graduate and professional leaders from the entire Midwest and exchange views on what we are doing, our successes and our problems. It should be interesting. It's too bad it isn't a football weekend up there.

Mr. Barone:

Thank you, Luke. At this time, I would like to call on David Straub, Undergraduate Student Government.

Mr. David Straub:

Members of the Board, President Jennings, well not good afternoon quite yet, good morning. First in my report, I would like to introduce our advisor -- last time I didn't, I wasn't sure if he wanted to be introduced or not being as part of this organization -- Dr. Asher, please stand. He is our new advisor. Our previous advisor left with another obligation outside of the University.

In beginning my report, the student government over the summer has been working on many things. Our student newsletter just came out and it will be distributed to all of the students, it is called USG Today. It is like a little play on that national paper. I think we want to be bigger than they are, possibly.

I want to talk about a few controversial things and then talk about some of the programs that we are doing. One of the concerns that I had -- and I almost brought a telephone into this meeting today to set it on the desk and leave it off the hook. The students have been calling our office very frequently -- and it has been a concern of mine -- regarding basketball tickets. They all want to go to the games, but we don't have enough tickets to provide for them. I understand the situation the University's in, and I will just look for support in this matter, hopefully next year, in dealing with this issue.

One other issue that we are concerned with is student representation on all University committees. We feel that our views are important and that there are some committees that undergraduate students in particular, are not represented on, and we ask that they be represented in that capacity.

Now on to the things that we have been doing. We have been working with some minority students right now on a retention program. We are starting a high-risk student study table that will be in effect on Monday for minority students, in particular, to increase their retention at this University. I am really looking forward to this program and hope that it will have an impact at the University in the retention area.

We are working with Representative Mike Stinziano with a campus safety program to increase the crime watch program that USG currently undertakes to go outside of the campus area into all the vicinities where students live off campus. Right now that right now is in the preliminary stages and are working out the details.

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub: (contd)

As Steve said, we have been working together with the different student governments on the appointment of the new Student Trustee and we are just in the preliminary stages of that also.

Ms. Davis:

You needn't rush that process.

Mr. Straub:

O.K., we won't rush that process. Another program that we are really looking forward to is the campus environment program that we have initiated. We are concerned with environmental issues inside the classroom, as well as outside as I have expressed in earlier reports to the Board. Our student working on this is Matt Krause. He has been working diligently with the different state government offices in helping with a clean-up program on our campus. I know that our goal is to make this campus one of the cleanest in the country, not only inside the classroom, but outside as well and the entire campus community.

And then one other bright note regarding one of our programs, and then I will end my report, is our park program, USG Park Program. In my first report I discussed the problem of parking on this campus and that we would be dealing with this issue. Well, we have come together with a proposal and a plan to help resolve some of the parking problems on this campus. We worked with the MidOhio Regional Planning Commission, the MetroRide Division, and the Office of Traffic and Parking at the University, to provide a car pool program for students. This program is being implemented. There are a couple different facets of the program and I will explain them just briefly. A student can apply through MetroRides with an application to be matched up with a student at this University. A student can also go to the Office of Traffic and Parking and receive a car pool decal with a hanging tag that they can car pool with. Or the student can do both, be matched up and also receive the car pool tag. So there are different facets of the program that we believe students will utilize and we are really hopeful for this program. The Office of Commuter Affairs is excited about the program, as well as Traffic and Parking, as well as our Office.

Those are just briefly a few things that we are doing and you will all be receiving a copy of our newsletter to peruse, if you will, during this quarter. Thank you for your time, and this concludes my report.

Mr. Barone:

Thank you. Any questions?

Ms. Paige:

I have a question. I was just wondering about the high-risk students' study table for minority students that you mentioned. I know myself, being a minority, I would be kind of hesitant to sit in the area that was labelled a high-risk student study group. I was wondering if you really have thought about this --

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub:

The whole program was worked through a student who has been very politically active in the minority issues. His name is Rick Iverson with the Just Us Group. Rick and I both went to a racism conference, which I didn't address, a few weekends ago in Cincinnati, sponsored by the Board of Regents. It was very successful and we spent the weekend together discussing this issue. He expressed his concern that last year he attempted this program and it was not successful. The issue of high risk is defined by the University, as I understand it, and I don't know the specifics. But as I understand it, for minority students, in particular, we are concerned with retention. That is why it is called what it is. We only have limited space also. We would like to have all-student study tables, but we can only limit it to 80 - 100 students right now until we get additional spacing.

Ms. Davis:

How are you making the students aware of these?

Mr. Straub:

Well right now it is brand new. I just talked to scheduling at 10:45 a.m. today to confirm that we had the room. As soon as I get back to the office, I will talk to Rick and we will disseminate this information to those students via phone, via flyers.

Ms. Paige:

Seeing that the program is only limited to 80 students, how are you going to choose which students will attend?

Mr. Straub:

Well, it is not going to be selection at first. If there is a need for greater capacity I plan on soliciting the scheduling office again for additional space at the University. It is the first program of this kind and I think it is important for USG to take the initiative on something to make steps in the right direction in the retention area.

Ms. Paige:

Are you saying that only minority students --

Mr. Straub:

No, no, that is why we qualify it as high risk -- students with learning disabilities or any students -- I am particularly concerned with the minority students, as a personal thing, but it is open to all students.

Mr. Barone:

Any further questions? That completes my report, Mr. Chairman.

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## **AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mrs. Bowser:

The Agricultural Affairs Committee met this morning and heard a report on the Farm Science Review which was held in the month of September. We found out that it is bigger and better than ever, having the largest three-day total number of paid admissions and the greatest exhibitors' square footage -- 43 acres. That is a lot of exhibits.

We also heard a progress report on the Piketon Research Extension Center. Bids are to be let on or around January 1, 1990. Hopefully, the construction will be completed within the year, and it will offer some new opportunities for the rural area in the southeastern and western Ohio. That constituency is most anxious that we get on with it and get started. So we heard a report on that, and they will continue to keep us updated. That completes my report.

(See Appendix XVII for complete text of the 1989 Farm Science Review, page 357.)

(See Appendix XVIII for complete text of the Progress Report at the Piketon Research and Extension Center, page 359.)

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## **FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Kessler:

The Fiscal Affairs Committee heard an extremely favorable status report on the University Campaign for the past fiscal year, as well as progress through August 31, of this year. Gift Receipts for this fiscal year just ended totalled \$68.3 million. Those receipts combined with campaign expectancies and previous year's receipts bring the Campaign total to \$388.2 million, which is 110% of the Campaign goal. During July and August of 1989, the Campaign received an additional \$12.7 million in contributions, bringing the total as of August 31 to just over \$401 million or 115% of the \$350 million goal in the fourth year of this five year Campaign.

(See Appendix XIX for charts of The Ohio State University Campaign, page 363.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

### **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 90-35

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for August 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**NOW THEREFORE**

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund during the month of August 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Background

**SUMMARY FOR AUGUST 1989**

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	169	\$14,099,696.92
Engineering Experiment Station	66	\$ 1,015,894.00
Total	235	\$15,115,590.92

**The Ohio State University Development Fund**

**Establishment of Designated Professorship**

The American Electric Power Professorship of Power Systems Engineering (Professorship)	\$ 20,000.00 Annually
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**Establishment of Named Funds**

The Sandoz Pharmaceuticals Corporation Endowment Fund for Clinical Research (Support clinical research)	\$ 200,000.00
The Sam Segall Memorial Library Fund (Purchase library books and periodicals for the Veterinary College Library)	\$ 181,407.00
The Sam Segall Memorial Scholarship Fund (Scholarships - College of Veterinary Medicine)	\$ 181,407.00
The Virginia I. Zirkle Scholarship Fund (Scholarships - College of Human Ecology or University College)	\$ 15,000.00

**Change in Name and Description of Named Fund**

From: The John J. Gerlach Professorship Fund  
To: The John J. Gerlach Chair Fund

October 6, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

Background (contd)

**SUMMARY FOR AUGUST 1989 (contd)**

**Change in Description of Named Funds**

The Sphinx Endowment Fund  
Robert M. Zollinger Lectureship Fund



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

Report - August 1989

**Federal Research Contracts/Grants**

**\$1,807,124.00** - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Manpower for Agricultural Development in Uganda, Office of International Programs in Agriculture (D. O. Hansen and J. M. Erbaugh), 1 October 1989 through 30 September 1990. (Project 764443 - Continuation)

**\$935,105.00** - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Spinal Cord Injury Research Center, Department of Surgery (W. E. Hunt) and Department of Physiology (B. T. Stokes), 1 September 1989 through 31 August 1990. (Project 763358 - Continuation)

**\$648,769.00** - Department of Health and Human Services, Health Resources and Services Administration, Rockville, Maryland, East Central Regional AIDS Education and Training Center, Department of Family Medicine (L. L. Gabel), 1 September 1989 through 31 August 1990. (Project 766345 - Continuation)

**\$349,992.00** - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and C. Gonzalez-Vega), 1 June 1989 through 30 June 1990. (Project 763301 - Continuation)

**\$344,403.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Investigation of Problem-Solving and Man-Machine Systems, Department of Pathology (J. W. Smith and M. S. Kennedy), Department of Industrial and Systems Engineering (P. J. Smith), and Department of Computer and Information Science (B. Chandrasekaran), 1 July 1989 through 30 June 1990. (Project 766119 - Continuation)

**\$316,181.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Transmural Transport in Blood Vessels, Department of Pathology and Department of Internal Medicine (D. L. Fry), 1 September 1989 through 31 August 1990. (Project 763184 - Continuation)

**\$276,912.00** - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Biogenesis of Mitochondria in *Neurospora*, Department of Molecular Genetics (A. M. Lambowitz), 1 September 1989 through 31 August 1990. (Project 765538 - Continuation)

**\$224,526.00** - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Restraint Stress: Suppression of Ia Expression, Department of Microbiology (B. S. Zwilling), 1 August 1989 through 31 July 1990. (Project 767728 - New)

**\$197,085.00** - Department of Energy, Argonne, Illinois, An Accelerator Neutron Source for Boron Neutron Capture Therapy (BNCT), Department of Mechanical Engineering (T. E. Blue, R. Christensen, and K. Vafai) and Department of Radiology (R. Gahbauer), 15 July 1989 through 14 July 1990. (Project 767614 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

**\$184,107.00** - Department of Education, Office of Postsecondary Education, Washington, D.C., Upward Bound Program, Office of Minority Affairs (L. K. Jackson), 1 September 1989 through 31 August 1990. (Project 767700 - New)

**\$183,000.00** - Department of Agriculture, Science and Education, Washington, D.C., Immune Response Mechanisms in Luteolysis, Department of Dairy Science and Department of Dairy Science OARDC (J. L. Pate), 1 September 1989 through 31 August 1992. (Project 767761 - New)

**\$179,099.00** - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Thymidylate Synthetase Gene Structure and Expression, Department of Biochemistry and Department of Molecular Genetics (L. F. Johnson), 1 September 1989 through 31 August 1990. (Project 762903 - Continuation)

**\$166,958.00** - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Ion Transport by Heart Mitochondria, Department of Physiological Chemistry (G. P. Brierley), 1 September 1989 through 31 August 1990. (Project 760026 - Continuation)

**\$150,008.00** - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Study of Shock-Boundary Layer Interaction in Hypersonic Flow, Department of Aeronautical and Astronautical Engineering (J. D. Lee, M. B. Bragg, and J. N. Scott), 1 January 1990 through 31 December 1990. (Project 765240 - Continuation)

**\$145,400.00** - Department of Energy, Argonne, Illinois, Molecular Ferromagnetism, Department of Physics and Department of Chemistry (A. J. Epstein), 1 August 1989 through 31 July 1990. (Project 765592 - Continuation)

**\$145,030.00** - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Brain Development in Schizophrenics and Their Siblings, Department of Psychiatry (S. C. Olson), 1 September 1989 through 31 August 1990. (Project 767013 - Continuation)

**\$137,688.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, DNA Damage in Oncogene Activation, Department of Radiology (A. A. Wani, S. M. D'Ambrosio, and R. M. Snapka), 1 September 1989 through 31 August 1990. (Project 766418 - Continuation)

**\$133,880.00** - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Stochastic Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Department of Chemistry and Department of Biochemistry (A. G. Marshall), 1 September 1989 through 31 August 1990. (Project 763504 - Continuation)

**\$130,503.00** - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, The Value of Glycolipids for Classifying Astrocytomas, Department of Pathology (A. J. Yates), 1 September 1989 through 31 August 1990. (Project 767769 - New)

**\$126,000.00** - National Science Foundation, Washington, D.C., Arm-Leg Coordination of Multilimbed Industrial Robots, Department of Electrical Engineering (Y. F. Zheng), 16 August 1989 through 31 August 1990. (Project 767792 - New)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$125,844.00 - Department of Health and Human Services, Food and Drug Administration, Rockville, Maryland, Reproductive Toxicology Models for Testing Gossypol Metabolites and Covalently-Bound Residues, Department of Veterinary Physiology and Pharmacology (Y. C. Lin) and College of Pharmacy (R. W. Brueggemeier), 1 July 1989 through 30 June 1990. (Project 767113 - Continuation)

\$124,960.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cardiac Myocytes and the Cellular Response to Ischemia, Department of Physiological Chemistry (G. P. Brierley), 30 September 1989 through 29 September 1990. (Project 765733 - Continuation)

\$124,696.00 - Department of Health and Human Services, National Library of Medicine, Bethesda, Maryland, Computer Based Pathology Consultation Submodule, Department of Pathology (J. W. Smith) and Department of Computer and Information Science (B. Chandrasekaran), 1 September 1989 through 31 August 1990. (Project 764606 - Continuation)

\$120,373.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Development of Cerebellar Circuits, Department of Anatomy (J. S. King), 1 September 1989 through 31 August 1990. (Project 760045 - Continuation)

\$120,000.00 - National Science Foundation, Washington, D.C., Collaborative Research on Pollen Tube Growth Rates and Male Fitness in Hibiscus moscheutos, Department of Botany (A. A. Snow), 15 October 1989 through 30 September 1992. (Project 767510 - New)

\$107,568.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Teenage Decision-Making, Schooling, and Fertility, Department of Economics (D. O. Parsons), 1 August 1989 through 31 July 1990. (Project 767000 - Continuation)

\$100,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Protein and Epitope-Specific Immune Responses to Bovine Coronavirus in Calves, Food Animal Health Research Program - OARDC (L. J. Saif), 1 September 1989 through 31 August 1992. (Project 767537 - New)

\$100,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Bacterial Genes Coding for Plant Ribulose Biphosphate Carboxylase, Department of Microbiology (F. R. Tabita), 1 September 1989 through 31 August 1991. (Project 767701 - New)

\$99,953.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Peptide Regulation of the HPA Axis in Major Depression, Department of Psychiatry (R. S. Jaeckle), 1 September 1989 through 31 August 1990. (Project 767045 - Continuation)

\$99,340.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Ex Vivo Xenoantibody Adsorption, Department of Surgery (M. L. Henry), 1 July 1989 through 30 June 1990. (Project 767662 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$99,051.00 - International Development Cooperation Agency, Agency for International Development, Mbabane, Swaziland, University Linkage Program in Agriculture: University of Swaziland and The Ohio State University, Office of International Programs in Agriculture (D. O. Hansen), 17 July 1989 through 30 June 1991. (Project 767716 - New)

\$97,109.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Signal Transduction in Gastrointestinal Neurons, Department of Physiology (J. D. Wood) and Department of Pharmacology (R. H. Fertel), 1 September 1989 through 31 August 1990. (Project 768006 - Continuation)

\$95,403.00 - Department of Agriculture, Science and Education, Washington, D.C., Serotypic Characterization of Porcine Rotaviruses Using Gene 9 cDNA Probes, Food Animal Health Research Program - OARDC (L. J. Saif), 1 September 1989 through 31 August 1991. (Project 767538 - New)

\$92,834.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Drug Prevention Program at OSU, Department of Preventive Medicine (J. R. Hostettler), 1 September 1989 through 30 September 1991. (Project 767785 - New)

\$90,550.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Somatostatin in Spinal Sensory Circuits, Department of Anatomy (R. H. Ho), 1 July 1989 through 30 June 1990. (Project 766184 - Continuation)

\$87,442.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Transfusion Medicine Academic Award, Department of Pathology (M. S. Kennedy), 1 August 1989 through 31 July 1990. (Project 764898 - Continuation)

\$87,057.00 - Department of Education, Office of Special Education and Rehabilitation Services, Chicago, Illinois, Training Grant in Physical Medicine and Rehabilitation, Department of Physical Medicine (E. W. Johnson), 1 October 1989 through 30 September 1990. (Project 767118 - Continuation)

\$87,000.00 - National Science Foundation, Washington, D.C., Physiological Substrates and Products of Carbon Monoxide Dehydrogenase from Methanosarcina barkeri, Department of Microbiology (J. A. Krzycki), 15 July 1989 through 30 June 1990. (Project 767791 - New)

\$86,400.00 - Department of Health and Human Services, National Institute of Aging, Bethesda, Maryland, Geriatric Leadership Academic Award, Department of Internal Medicine (R. Whisler), 1 September 1989 through 31 August 1990. (Project 766318 - Continuation)

\$80,000.00 - National Science Foundation, Washington, D.C., Identification of Sequences Necessary for the Regulation and Function of p33 in Carrot, Biotechnology Program and Department of Agronomy (M. L. Tierney), 15 August 1989 through 31 July 1990. (Project 767706 - New)

\$80,000.00 - National Science Foundation, Washington, D.C., Role of the Host Gene in Root Nodule Development, Biotechnology Program (D. P. S. Verma), 1 August 1989 through 31 July 1990. (Project 767707 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$79,608.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neuronal Development, Plasticity, and Regeneration, Department of Anatomy (G. F. Martin, Jr.), 10 July 1989 through 30 June 1990. (Project 767734 - New)

\$77,516.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Individual Faculty Scholar Award in Schizophrenia, Department of Psychiatry (J. A. Coffman), 1 September 1989 through 31 August 1990. (Project 768004 - Continuation)

\$71,798.00 - National Science Foundation, Washington, D.C., Summer Mathematics Program, Department of Mathematics (A. E. Ross, G. Edgar, and D. Ray-Chaudhuri), 1 July 1990 through 30 June 1991. (Project 767333 - Continuation)

\$67,183.00 - National Science Foundation, Washington, D.C., Ship-to-Shore Seismic Refraction Investigation of the Lithospheric Structure of the Transantarctic Mountain Front, Byrd Polar Research Center and Department of Geology and Mineralogy (R. R. B. Von Frese), 1 July 1989 through 31 December 1990. (Project 766709 - Continuation)

\$65,000.00 - National Science Foundation, Washington, D.C., Formation of Hybrid Natural Products by Interspecies Cloning of Streptomyces, Department of Microbiology (W. R. Strohl), 15 September 1989 through 31 August 1990. (Project 767709 - Continuation)

\$63,084.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Nicotine, Neuroregulators, and Dysphoric States Among Smokers, Department of Life Span Process (M. E. Wewers), 1 August 1989 through 31 July 1990. (Project 766969 - Continuation)

\$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (G. P. Lafyatis), 1 March 1990 through 28 February 1991. (Project 766988 - Continuation)

\$62,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (R. J. Perry), 1 February 1990 through 31 January 1991. (Project 766901 - Continuation)

\$59,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Electrical Engineering (Y. F. Zheng), 16 July 1989 through 31 January 1990. (Project 767624 - New)

\$50,778.00 - Department of the Navy, Office of Naval Research, Washington, D.C., Signature Reduction Technology, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 15 September 1989 through 14 September 1990. (Project 767754 - New)

\$50,000.00 - National Science Foundation, Washington, D.C., Predation, Herbivory, and Disturbance: Structuring Forces in the Littoral Zone Community of North Temperate Lakes, Department of Zoology (R. A. Stein), 1 July 1989 through 30 June 1990. (Project 767694 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$49,986.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, NASA Lewis Research Center Compact Range Design, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and I. J. Gupta), 20 August 1989 through 19 August 1990. (Project 767771 - New)

\$48,095.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 31 August 1989 through 30 November 1989. (Project 767472 - Continuation)

\$45,201.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Ethology of Blood/Sugar Antagonism in Mosquitoes, Department of Entomology (W. A. Foster), 1 September 1989 through 31 August 1990. (Project 766238 - Continuation)

\$40,500.00 - National Science Foundation, Washington, D.C., Algebraic and Geometric Topology, Department of Mathematics (M. W. Davis and R. M. Charney), 15 July 1989 through 30 June 1990. (Project 767613 - New)

\$40,000.00 - Department of Education, Washington, D.C., Expanding African Studies at The Ohio State University, Department of Black Studies (I. J. Mowoe), 1 October 1989 through 30 September 1990. (Project 767698 - New)

\$36,218.00 - Environmental Protection Agency, Chicago, Illinois, Effect of No-Till and Fall Plowing on Pesticide Movement in Runoff and Till Drainage, Department of Agronomy - OARDC and Department of Agronomy (T. L. Logan) and Cooperative Extension State Operations and Department of Agronomy - OARDC (D. J. Eckert), 1 May 1989 through 30 April 1990. (Project 766424 - Continuation)

\$36,100.00 - National Science Foundation, Washington, D.C., Bayesian Design and Analysis Stochastic Optimization and File-Merging Methodology, Department of Statistics (P. K. Goel, L. M. Berliner, W. Notz, and S. MacEachern), 15 July 1989 through 30 June 1990. (Project 767762 - New)

\$35,420.00 - National Science Foundation, Washington, D.C., Diatom Biostratigraphy and Antarctic Glacial History Through Reworked and In Situ Microfossils, Byrd Polar Research Center (D. H. Elliot), 1 May 1989 through 31 October 1990. (Project 766757 - Continuation)

\$34,129.00 - National Science Foundation, Washington, D.C., Studies of Internal Layering and Basal Conditions in Ice Sheets Using Low Frequency Ice Radar, Byrd Polar Research Center and Department of Geology and Mineralogy (I. M. Whillans), 1 December 1989 through 30 November 1990. (Project 765261 - Continuation)

\$32,538.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (N. D. Schmidt and R. F. Edwards), 1 October 1988 through 30 September 1989. (Project 766472 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$27,200.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, Initiative for the Analysis and Selection of Opacity Project Data, Department of Astronomy (A. K. Pradhan), 1 August 1989 through 31 December 1989. (Project 767788 - New)

\$22,977.00 - Department of the Navy, Navy Material Command, China Lake, California, Antenna Edge Treatment, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 July 1989 through 31 December 1989. (Project 767718 - New)

\$21,000.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Involvement of a tRNA Synthetase in RNA Splicing, Department of Molecular Genetics (A. M. Lambowitz), 1 September 1989 through 31 August 1990. (Project 767697 - New)

\$20,860.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, MARC Predoctoral Fellowship, Department of Microbiology and Immunology and Oral Biology (J. F. Sheridan), 1 September 1989 through 31 August 1990. (Project 766363 - Continuation)

\$20,000.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Small Instrumentation Program -- The Ohio State University, Medicine Administration (D. G. Cornwell), 1 September 1989 through 31 August 1990. (Project 767765 - New)

\$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., Nonlinear Analysis of Boundary Layers with Streamwise Varying Properties, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 August 1989 through 31 July 1990. (Project 766897 - Continuation)

\$17,990.00 - National Science Foundation, Washington, D.C., Simulation of Fluid Flow and Solidification in Die Casting Processes, Department of Industrial and Systems Engineering (T. Altan and Y. T. Im), 1 September 1989 through 31 August 1992. (Project 767738 - New)

\$14,480.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Lubrication of Triboelements, Department of Mechanical Engineering (B. J. Hamrock), 1 July 1989 through 30 September 1990. (Project 766311 - Continuation)

\$12,859.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Spinal Cord Injury Research Center, Department of Physiological Chemistry (L. A. Horrocks) and Department of Physiology (B. T. Stokes), 1 September 1988 through 31 August 1989. (Project 763358 - Continuation)

\$12,000.00 - National Science Foundation, Washington, D.C., Acoustic Communication and Mating Behavior of Prokelisia Planthoppers, Department of Entomology - OARDC (R. E. Treece), 1 September 1989 through 31 August 1990. (Project 767747 - New)

\$10,000.00 - Department of Agriculture, Forest Service, Fort Collins, Colorado, Airborne Video Analysis and Interpretation Software Development, Center for Mapping (J. D. Bossler), 1 August 1989 through 30 October 1990. (Project 767775 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$10,000.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Production and Characterization of Glycosylated Chicken Growth Hormone, Department of Poultry Science - OARDC (D. N. Foster), 1 June 1989 through 1 June 1991. (Project 767720 - New)

\$8,662.00 - Environmental Protection Agency, Chicago, Illinois, Acid Deposition Monitoring Program for Western Lake Erie, Center for Lake Erie Area Research (J. M. Reutter), 1 July 1989 through 30 June 1990. (Project 767085 - Continuation)

\$8,490.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Heavy Duty Brake Research, Department of Statistics (P. K. Goel), 1 August 1989 through 31 July 1990. (Project 767787 - New)

\$7,024.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Small Instrumentation Program, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 July 1989 through 30 June 1990. (Project 767732 - New)

\$7,000.00 - Department of the Interior, National Park Service, Yellowstone National Park, Wyoming, Local, Regional, and National Coverage of the 1988 Yellowstone-Area Wildfires: Content Analysis and Evaluation, School of Journalism (C. G. Smith), 1 July 1989 through 31 March 1990. (Project 767730 - New)

\$5,000.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Small Instrumentation Program, College of Optometry (R. M. Hill), 1 August 1989 through 31 July 1990. (Project 767708 - New)

\$5,000.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Small Instrumentation Program, Oral Biology (J. Travers), 1 September 1989 through 31 August 1990. (Project 767727 - New)

\$4,007.00 - National Science Foundation, Washington, D.C., Scientists and Statesmen: President Dwight D. Eisenhower's Science Advisers and National Security Policy, Department of History (M. J. Hogan and R. Damms), 1 September 1989 through 31 August 1990. (Project 767783 - New)

\$3,750.00 - National Science Foundation, Washington, D.C., REU Supplement to "Models of the Location of Hub Facilities," Department of Geography (M. E. O'Kelly), 1 March 1989 through 28 February 1990. (Project 767343 - Continuation)

\$2,768.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, RNA Splicing in *Neurospora* Mitochondria, Department of Molecular Genetics and Department of Biochemistry (A. M. Lambowitz), 1 April 1989 through 31 March 1990. (Project 765596 - Continuation)

\$2,535.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Polyquinane and Related Natural Products, Department of Chemistry (L. A. Paquette), 1 July 1989 through 30 June 1990. (Project 762298 - Continuation)



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$2,421.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Molecular Biology of Organellar Translocation, Department of Molecular Genetics (B. R. Oakley) and Department of Microbiology (D. R. Galloway), 1 April 1989 through 31 March 1990. (Project 763502 - Continuation)

\$2,029.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1989 through 30 June 1990. (Project 765529 - Continuation)

\$1,916.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Genetics of Myogenesis: Structure and Function, Department of Molecular Genetics (S. Falkenthal), 1 June 1989 through 31 May 1990. (Project 763993 - Continuation)

\$1,411.00 - Department of Health and Human Services, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, Biochemical Studies of Arsenite Oxidase and Sulfite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 July 1989 through 30 June 1990. (Project 766908 - Continuation)

\$1,137.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Conformational and Electrostatic Effects in Plastocyanin, Department of Biochemistry (E. L. Gross), 1 April 1989 through 31 March 1990. (Project 765991 - Continuation)

\$434.00 - Department of Health and Human Services, National Institutes of Health Clinical Center, Bethesda, Maryland, Normal Patient Volunteer Program, Biological Sciences Administration and Department of Microbiology (A. M. Ackermann-Brown), 1 July 1989 through 31 July 1989. (Project 767704 - Continuation)

Personnel Services - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1989 through 30 June 1990. (Project 766340 - Continuation) (Approximate Dollar Value - \$59,000)

**TOTAL - FEDERAL AWARDS**

**\$10,265,454.00**

**State of Ohio Research Contracts/Grants**

\$210,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Engineering Experiment Station and Academic Affairs Administration (R. E. Bailey), 1 July 1989 through 30 June 1990. (Project 767751 - Continuation)

\$150,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Labor-Management Partnership Program (A Regional Center for the Advancement of Labor-Management Cooperation), Academic Faculty of Management and Human Resources (D. B. Patton and H. R. Bobbitt, Jr.), 1 July 1989 through 30 June 1990. (Project 767608 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$67,746.00 - State of Ohio, Department of Education, Columbus, Ohio, Entrepreneurship Education in the Modernization of Vocational Education in Ohio, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767713 - New)

\$50,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Development of Mascarpone, Italian Style Cream Cheese, for the United States Market, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (D. J. Dzurec, Jr.), 1 August 1989 through 31 July 1991. (Project 767711 - New)

\$34,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, The Mental Health Needs of Persons Who Are Deaf, College of Social Work (R. E. Boettcher), 1 July 1989 through 30 June 1990. (Project 767729 - New)

\$33,708.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Ventures in Business Ownership -- Year III, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767712 - Continuation)

\$30,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Forensic Psychiatry Traineeship -- Level II, Department of Psychology (H. L. Mirels), 1 July 1989 through 30 June 1990. (Project 767741 - New)

\$30,000.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Into the 90's: New Works for New Spaces, Wexner Center for the Visual Arts (R. Stearns), 1 September 1989 through 1 October 1990. (Project 767782 - New)

\$19,745.00 - State of Ohio, Department of Health, Columbus, Ohio, Hemophilia/AIDS/HIV Infection Prevention, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 767778 - New)

\$15,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Biotechnology Program, Biotechnology Program (P. E. Kolattukudy), 12 May 1989 through 30 December 1989. (Project 767745 - New)

\$10,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Diabetes in Pregnancy -- Education Program, Department of Obstetrics and Gynecology (M. B. Landon), 18 May 1989 through 31 August 1989. (Project 767731 - New)

\$7,358.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Festival of Cartoon Art, University Libraries (L. S. Caswell), 1 July 1989 through 31 December 1989. (Project 767648 - New)

\$5,550.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Grandparents Living Theatre, Department of Theatre (J. Reilly), 1 July 1989 through 30 June 1990. (Project - 767755 New)

\$5,109.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, 1989 International Computer Music Conference, School of Music (D. Butler and T. Wells), 1 July 1989 through 30 November 1989. (Project 767767 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$5,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Successful Single Parenting, Cooperative Extension Field Operations (R. Culbertson), 1 July 1989 through 30 June 1990. (Project 767589 - New)

\$3,749.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Publication Support for "The Journal: The Literary Magazine of The Ohio State University," Department of English (D. J. Citino), 1 October 1989 through 30 September 1990. (Project 767789 - New)

\$2,801.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Mereson Performing Arts Season, Mereson Auditorium (R. Stearns), 28 September 1989 through 20 June 1990. (Project 767781 - New)

\$2,263.00 - State of Ohio, Department of Education, Columbus, Ohio, Upward Bound Summer Food Service Program, Office of Minority Affairs (L. K. Jackson), 12 June 1989 through 31 October 1989. (Project 767750 - New)

\$847.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, A Program of International Visiting Artists for 1990, Department of Art (T. W. Slaughter), 1 January 1990 through 30 June 1990. (Project 767780 - New)

\$150.95 - State of Ohio, Department of Education, Columbus, Ohio, Upward Bound Summer Food Service Program, Office of Minority Affairs (L. K. Jackson), 12 June 1989 through 31 October 1989. (Project 767750 - Continuation)

**TOTAL - STATE OF OHIO AWARDS** **\$ 683,026.95**

**Industrial Research Contracts/Grants**

\$198,720.00 - Sandoz, Inc., East Hanover, New Jersey, ZK112-119 -- Study No. C201, Department of Psychiatry (M. R. Mavissakalian), 1 July 1989 through 31 December 1990. (Project 767749 - New)

\$127,147.00 - General Electric Company, Cincinnati, Ohio, Duct Propagation Analysis and Termination Characterization, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 August 1989 through 31 December 1989. (Project 767744 - New)

\$110,736.00 - Sandoz, Inc., East Hanover, New Jersey, ZK112-119 -- Study No. B202, Department of Psychiatry (M. R. Mavissakalian), 1 July 1989 through 30 September 1990. (Project 767779 - New)

\$110,374.00 - The R. W. Johnson Pharmaceutical Research Institute, Spring House, Pennsylvania, Topiramate Follow-On Protocols (YK-T and YK-P), Department of Neurology (M. E. Drake, Jr.), 1 June 1989 through 31 May 1992. (Project 767760 - New)

\$108,796.00 - Imperial Chemical Industries PLC, London, England, The Genetic Basis of Specific Symptom Responses in Maize Inbreds and Hybrids to Infection by Maize Chlorotic Dwarf Virus, Department of Agronomy - OARDC (R. C. Pratt), 1 September 1989 through 30 August 1991. (Project 767759 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$100,000.00 - Duphar, B.V., Weesp, Holland, Medicinal Chemistry Research, College of Pharmacy (D. T. Witiak), 1 July 1989 through 30 June 1991. (Project 767753 - New)

\$55,757.00 - Neoprobe Corporation, Columbus, Ohio, Phase I-II Clinical Study: The Intraoperative Detection of Colorectal Cancer by Radiolabeled B72.3 Monoclonal Antibody, Department of Surgery (E. W. Martin), 1 August 1989 through 31 July 1990. (Project 766930 - Continuation)

\$40,609.50 - Burroughs Wellcome Company, Research Triangle Park, North Carolina, Evaluation of BW tPA in the Initial Lysis and Maintenance of Patency of Coronary Arteries in Patients with Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 1 July 1988 through 31 December 1989. (Project 766466 - Continuation)

\$38,600.00 - The Edison Materials Technology Center, Kettering, Ohio, Processing Oxide Superconducting Films as Infrared Wave Detectors, Department of Physics (T. R. Lemberger), 1 August 1989 through 31 July 1990. (Project 767772 - New)

\$38,400.00 - Clinical Research International, Inc., Research Triangle Park, North Carolina, A Multicenter, Placebo-Controlled, Parallel-Design, Phase III Evaluation of the Safety of Lamotrigine as Add-On Therapy in Outpatients with Partial Seizures, Department of Neurology (M. E. Drake, Jr.), 1 July 1989 through 30 September 1991. (Project 767774 - New)

\$30,954.00 - Honda of America Manufacturing, Inc., Marysville, Ohio, Basic Skills Training, Education Administration (J. J. Buffer), 1 June 1989 through 1 December 1989. (Project 767679 - New)

\$28,113.33 - Merck and Company, Rahway, New Jersey, Merck Urine Dose Confirmation Study, Department of Veterinary Clinical Sciences (J. J. Kowalski), 1 August 1989 through 31 December 1989. (Project 767687 - New)

\$26,000.00 - Burroughs Wellcome Company, Research Triangle Park, North Carolina, Open, Multicenter Study of the Safety of PROLYSIS<sup>R</sup> (BW tPA) in Patients with Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 1 July 1989 through 30 June 1990. (Project 767722 - New)

\$20,132.00 - Mission Research Corporation, Santa Barbara, California, Compact Range System Development, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside), 1 July 1989 through 1 September 1989. (Project 767463 - Continuation)

\$20,000.00 - The Procter and Gamble Company, Cincinnati, Ohio, Model Gastritis Infections: Pathogenesis, Immune Response, and Therapeutic Intervention, Department of Veterinary Pathobiology (G. S. Krakowka), 1 June 1989 through 30 April 1990. (Project 767763 - New)

\$15,958.00 - World Book Encyclopedia, Chicago, Illinois, Graduate Student Practicum -- 1989-1990, Education Administration (T. M. Stephens), 1 September 1989 through 30 June 1990. (Project 767752 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$15,000.00 - Beecham Laboratories, Bristol, Tennessee, A Randomized, Double-Blind, Multicenter Study Comparing Myocardial Function, Patency, and Safety of Intravenous EMINASE<sup>R</sup> (anistreplase; APSAC; BRL 26921) Versus Intravenous Alteplase (t-PA) in Patients with an Acute Myocardial Infarction, Department of Internal Medicine (R. D. Magorien), 23 August 1989 through 22 August 1990. (Project 767764 - New)

\$12,000.00 - Rosemount, Inc., Burnsville, Minnesota, Advanced Radar Cross Section Measurements, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 1 March 1989 through 30 September 1989. (Project 766668 - Continuation)

\$12,000.00 - Stuart Pharmaceuticals, Wilmington, Delaware, A Multicenter Comparison of Zoladex Depot and Surgical Castration in Metastatic Prostate Carcinoma, Department of Surgery (J. R. Drago), 1 September 1985 through 30 June 1990. (Project 765067 - Continuation)

\$8,998.00 - Corpak, Inc., Wheeling, Illinois, The Efficacy of Citrate Solution Flushes in the Prevention of Nasogastric Feeding Tube Occlusion, School of Allied Medical Professions (J. C. Burge), 1 June 1989 through 31 May 1990. (Project 767723 - New)

\$7,150.00 - Ross Laboratories, Columbus, Ohio, Enteral Feeding Device Study, Department of Veterinary Clinical Sciences (C. A. Buffington), 15 June 1989 through 14 June 1991. (Project 767699 - New)

\$6,137.50 - Sandoz, Inc., East Hanover, New Jersey, A Double-Blind, Multicenter Study to Determine the Safety and Efficacy of Chronic Sandostatin Treatment in Acromegalic Patients, Department of Internal Medicine (W. B. Malarkey) 1 March 1989 through 30 June 1990. (Project 767693 - New)

\$1,000.00 - Various Food Companies, Minority Internships in Food Science and Nutrition, Department of Food Science and Nutrition (M. E. Mangino and G. W. Chism III), 1 June 1990 through 31 May 1991. (Project 767691 - New)

Travel - International Business Machines Corporation, San Jose, California, Garnet Thin Films for Magneto-Optic Recording Media, Department of Physics (P. E. Wigen), 1 December 1988 through 30 November 1989. (Project 767208 - New) (Approximate Dollar Value - \$7,000)

**TOTAL - INDUSTRIAL AWARDS**

**\$ 1,132,582.33**

**Other Non-Federal Research Contracts/Grants**

\$721,070.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, OTO Office Support Project, Office of International Affairs (D. G. McCloud), 1 April 1989 through 30 June 1990. (Project 767598 - New)

\$162,342.00 - Butler County Children Services Board, Hamilton, Ohio, Development of Living Skills Program, Cooperative Extension Field Operations (P. H. Simmons-Schear), 1 July 1989 through 30 June 1991. (Project 767719 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$156,250.00 - Getty Center for Education in the Arts, Los Angeles, California, The Ohio Partnership for Visual Arts: Regional Institute for Educators, Department of Art Education (N. MacGregor and M. J. Parsons), 1 April 1989 through 30 June 1990. (Project 766784 - Continuation)

\$150,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Application for a Grant to Help Create an American Cancer Society Professorship of Clinical Oncology, Department of Otolaryngology (D. E. Schuller), 1 July 1989 through 30 June 1994. (Project 767737 - New)

\$142,050.00 - Inland Fisher Guide Division, General Motors Corporation/United Auto Workers/The Ohio State University, Columbus, Ohio, IFG/UAW/OSU Cooperative Research Agreement, Department of Industrial and Systems Engineering (G. L. Smith), Academic Affairs Administration (H. L. Gauthier), Department of Psychology (R. S. Billings and R. J. Vance), Academic Faculty of Management and Human Resources (A. E. Reichers and J. Wanous), Department of Communication (K. J. Krone), Department of English (K. O. Locker), Department of Economics (L. F. Dunn), Academic Faculty of Labor Education and Research Services (R. M. Montgomery and E. E. Daniels), and Department of Preventive Medicine (C. A. Heaney), 1 July 1989 through 30 September 1991. (Project 767599 - New)

\$100,000.00 - Ohio University, Athens, Ohio, Molecular Farming: Recombinant Gene Expression in Bovine Mammary Gland and Hen Oviduct, Department of Dairy Science - OARDC (F. L. Schanbacher and C. P. Hodgson), 1 July 1989 through 30 June 1990. (Project 766005 - Continuation)

\$62,732.00 - The Cleveland Foundation, Cleveland, Ohio, Development of a Management Design Program, Business Administration (J. D. Ford), 1 July 1989 through 30 June 1991. (Project 767726 - New)

\$60,000.00 - American Cancer Society, New York, New York, American Cancer Society Institutional Research Grant, Comprehensive Cancer Center (D. S. Yohn), 1 July 1989 through 30 June 1990. (Project 764472 - Continuation)

\$47,163.00 - Robert Wood Johnson Foundation, Princeton, New Jersey, Robert Wood Johnson Dental Services Research Scholar, Community Dentistry (R. A. Kuthy), 1 July 1989 through 30 June 1990. (Project 766819 - Continuation)

\$45,300.00 - American Cancer Society, Atlanta, Georgia, Total Synthesis of Neoliacinic Acid, Department of Chemistry (L. A. Paquette and D. N. Deaton), 1 July 1989 through 30 June 1991. (Project 767756 - New)

\$35,000.00 - American Lung Association, New York, New York, Oxidant Injury in the Adult Respiratory Distress Syndrome (ARDS), Department of Internal Medicine (W. B. Davis), 1 July 1989 through 30 June 1990. (Project 765375 - Continuation)

\$33,931.00 - California Institute of Technology, Pasadena, California, Experimental Study of Decentralized Control Approach Applied to Control of Large Flexible Space Structures, Department of Electrical Engineering (U. Ozguner and K. Ossman), 11 August 1989 through 10 March 1990. (Project 767678 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$25,000.00 - American Association of Oral and Maxillofacial Surgeons, Rosemont, Illinois, Changes in the Trigeminal Ganglion and Nuclear Complex Following Maxillary Osteotomies, Oral and Maxillofacial Surgery (B. Steinberg), 1 July 1989 through 30 June 1990. (Project 767740 - New)

\$25,000.00 - American Lung Association, New York, New York, Contrasting Models of Neutrophil Recruitment to the Lung: Pneumonia Versus Sepsis, Department of Internal Medicine (J. E. Gadek and G. C. Kindt), 1 July 1989 through 30 June 1990. (Project 766912 - Continuation)

\$25,000.00 - Emergency Medicine Foundation, Irving, Texas, The Myocardial Sequelae of Irreversible Shock and Uncontrolled Continuous Hemorrhage, Department of Preventive Medicine (P. F. Van Ligten), 1 July 1989 through 30 June 1990. (Project 767758 - New)

\$25,000.00 - World Bank, Washington, D.C., International Conference: Informal Financial Markets for Low-Income Countries, Department of Agricultural Economics and Rural Sociology (D. W. Adams), 1 October 1989 through 31 December 1989. (Project 767703 - New)

\$24,959.00 - Capital University, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 1 August 1989 through 31 May 1990. (Project 767695 - Continuation)

\$24,300.00 - University of Nebraska, Lincoln, Nebraska, Low-Input Ridge Tillage System for the Corn Belt, Department of Agricultural Engineering - OARDC and Department of Agricultural Engineering (R. C. Reeder), 1 June 1988 through 30 September 1989. (Project 767733 - New)

\$20,400.00 - Ford Foundation, New York, New York, R. Chakravarti Fellowship, Department of History of Art (S. L. Huntington), 16 August 1989 through 30 June 1990. (Project 767724 - New)

\$20,000.00 - Ohio Cancer Research Associates, Columbus, Ohio, Molecular Lesion of 5q\ Chromosome in Acute Non-Lymphocytic Leukemia (ANLL) Patients, Department of Internal Medicine (I. M. Chiu and D. E. Thornton), 1 July 1989 through 30 June 1990. (Project 766910 - Continuation)

\$18,000.00 - Ohio Cancer Research Associates, Columbus, Ohio, Importance of the Hexose Monophosphate Pathway in the Metabolism of Tumor Tissue, Department of Internal Medicine (A. L. Sagone), 1 July 1989 through 30 June 1990. (Project 766923 - Continuation)

\$16,765.00 - Ohio Dominican College, Columbus, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1989 through 15 May 1990. (Project 767748 - Continuation)

\$14,960.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, The Role of the C-mos Proto-oncogene in Cellular Proliferation, Department of Anatomy (B. E. Batten), 1 July 1989 through 30 June 1990. (Project 767670 - New)

\$12,744.00 - Dublin Local Schools, Dublin, Ohio, Adaptive Physical Education Internship, School of Health, Physical Education, and Recreation (P. Jansma), 1 September 1989 through 30 June 1990. (Project 767746 - Continuation)

October 6, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$10,330.64 - Virginia Polytechnic Institute, Blacksburg, Virginia, Development of Monoclonal Antibodies Against Pituitary Isohormones, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 30 September 1988 through 22 September 1990. (Project 767721 - New)

\$8,426.00 - Otterbein College, Westerville, Ohio, Student Personnel in Higher Education, Department of Educational Policy and Leadership (R. F. Rodgers), 15 August 1989 through 15 June 1990. (Project 767705 - Continuation)

\$8,208.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Classes, Nisonger Center (S. R. Schroeder and V. L. Reynolds), 1 October 1988 through 30 September 1989. (Project 766813 - Continuation)

\$5,000.00 - Ohio Nurserymen's Association, Inc., Columbus, Ohio, Impact of the Nursery Industry on Ohio's Economy, Department of Horticulture - OARDC and Department of Horticulture (T. Rhodus) and Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (R. D. Taylor), 1 September 1989 through 31 August 1990. (Project 767725 - New)

\$4,628.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologicals Committee Activities of the Community Clinical Oncology Programs, Department of Internal Medicine (J. J. Rinehart), 1 June 1989 through 31 May 1990. (Project 765841 - Continuation)

\$3,575.00 - University of Rochester, Rochester, New York, Smooth Muscle Model System for the Induction of Oxygen Regulated Proteins During Ischemia, Department of Anatomy (A. R. Strauch), 1 July 1989 through 30 August 1990. (Project 767736 - New)

\$3,000.00 - Bedding Plants Foundation, Inc., Lansing, Michigan, Genetic Engineering of S-Allele Proteins of Petunia: Assessment of the Potential for Introduction of Novel Breeding Barriers into Horticultural Crops, Department of Molecular Genetics (T. L. Sims), 1 September 1989 through 31 August 1990. (Project 767768 - New)

\$3,000.00 - Commonwealth of Kentucky, Frankfort, Kentucky, National Entrepreneurship Education Consortium, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767682 - Continuation)

\$2,500.00 - Nebraska Department of Education, Lincoln, Nebraska, National Consortium of State Career Guidance Supervisors, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767680 - Continuation)

\$2,000.00 - Bergen Community College, Paramus, New Jersey, National Alliance of Community and Technical Colleges, Center for Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767681 - Continuation)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$ 2,018,633.64**



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**ENGINEERING EXPERIMENT STATION**

**State Sponsored Research and Development**

\$184,820.00 - from The Industrial Commission of Ohio, Columbus, Ohio, for "An Evaluation of the motion Component in Manual Lifting," under the direction of the Department of Industrial and Systems Engineering for the period July 1, 1989 through June 30, 1990. (529815)

**Industrial and Other Sponsored Research and Development**

\$88,470.00 - from General Dynamics, Fort Worth, Texas, for "Development of Radar Target Identification Algorithms," under the direction of the Department of Electrical Engineering for the period August 1, 1989 through December 31, 1989. (529819)

\$87,270.00 - from AITRC/CAS, Columbus, Ohio, for "An Analysis of Performance and Cost Factors in Searching Large Databases Using Parallel Search Systems," under the direction of the department of Computer and Information Science for the period July 1, 1989 through June 30, 1990. (529821)

\$62,400.00 - from General Electric Company, Cincinnati, Ohio, for "Testing of the CF6-80C2 Engine Simulator in a Scale Model of the Japan Air Lines Test Cell," under the direction of the Department of Aeronautical and Astronautical Engineering for the period July 1, 1989 through October 16, 1989. (312513)

\$57,287.00 - from 30 sponsors of 35 development projects in three departments/research areas of the College.

\$40,000.00 - from various industry for membership in "Compact Range Cross Section Measurement Ranges Research and Development Consortium," under the direction of the Department of Electrical Engineering. (312884)

\$36,402.00 - from General Electrical Company, Cincinnati, Ohio, for "Active Limitation of Base Metal Melting in Weld Repair of Casting," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 15, 1989. (529817)

\$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Thermal/Stress Modeling of Plastic Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529356)

\$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Weldability Test Techniques," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529354)

\$25,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Creep of Stainless Steel Welds," under the direction of the Department of Materials Science & Engineering for the period July 1, 1989 through December 31, 1989. (529367)

\$24,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Full Penetration in Precision GTAW," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529358)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**ENGINEERING EXPERIMENT STATION (contd)**

**Industrial and Other Sponsored Research and Development (contd)**

\$24,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Computer-Aided Tomography," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529361)

\$23,983.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529371)

\$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Penetration in High Radiance Laser Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529355)

\$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "NDE of Composite Materials and Welds," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529352)

\$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Silicate Brazing of Ceramics," under the direction of the Department of Materials Science & Engineering for the period July 1, 1989 through December 31, 1989. (529351)

\$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Real Time Radiographic Control of Arc Welding," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529360)

\$22,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Analytical Electron Microscopy of Weld Metals," under the direction of the Department of Materials Science & Engineering for the period July 1, 1989 through December 31, 1989. (529362)

\$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Characterization of Polymers in Vicinity of Welded Joints," under the direction of the Department of Chemical Engineering for the period July 1, 1989 through December 31, 1989. (529365)

\$20,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Significance of Local Brittle Zone Site," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529368)

\$20,000.00 - from EPRI, Palo Alto, California, for "HVDC Converter Station Electromagnetic Noise Study," under the direction of the Department of Electrical Engineering for the period February 4, 1986 through December 31, 1990. (529714, Ext. 3)

\$19,724.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529370)

\$19,582.00 - from Edison Welding Institute, Columbus, Ohio, for "Joining and Nondestructive Evaluation of Advanced Materials," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529369)

October 6, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **ENGINEERING EXPERIMENT STATION (contd)**

#### **Industrial and Other Sponsored Research and Development (contd)**

\$17,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Solid State Weld Strength by Ultrasonic Spectroscopy," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529353)

\$17,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Arc Sensing Pool Oscillation for Penetration Control," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529359)

\$15,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Offline Robotic Programming," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529357)

\$12,000.00 - from Edison Welding Institute, Columbus, Ohio, for "Seam Welding of Coated Steels," under the direction of the Department of Welding Engineering for the period July 1, 1989 through December 31, 1989. (529363)

\$10,500.00 - from various industry for membership in the Gear Research Laboratory, under the direction of the Department of Mechanical Engineering. (529735)

\$10,000.00 - from various industry for associate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$8,356.00 - additional funding from Edison Welding Institute, Columbus, Ohio, for "Zirconia to Metal Brazing," under the direction of the Department of Materials Science and Engineering for the period June 1, 1988 through August 31, 1989. (312463, Ext. 1)

\$8,100.00 - from NCR Corporation, Cambridge, Ohio, for "Flow Analysis and Design of a Plastic Part," under the direction of the Department of Mechanical Engineering for the period August 1, 1989 through October 31, 1989. (529820)

\$5,000.00 - from Arco Chemical Company, Newtown Square, PA, for "Grant to Support Upgrading Image Processing and Analysis Workstation," under the direction of the Department of Chemical Engineering for the period July 1, 1989 through June 30, 1990. (529816)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH	\$831,074.00
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### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

#### **Establishment of Designated Professorship**

##### **The American Electric Power Professorship of Power Systems Engineering**

The American Electric Power Professorship of Power Systems Engineering was established October 6, 1989, as a designated professorship program, by the Board of Trustees of The Ohio State University. This prestigious position was made possible through annual gifts from the American Electric Power System.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Designated Professorship (contd)**

**The American Electric Power  
Professorship of Power Systems Engineering (contd)**

Each year the funds given for the American Electric Power Professorship will be used to provide compensation and/or program support for a truly distinguished member of the Department of Electrical Engineering. Selection for the coveted honor will be made by the Dean of the College of Engineering in consultation with the Chairperson of Electrical Engineering and with the approval of the Provost of the University. The professorship will be awarded on a year-to-year basis and may be renewable.

**Establishment of Named Funds**

**The Sandoz Pharmaceuticals Corporation Endowment Fund  
for Clinical Research**

The Sandoz Pharmaceuticals Corporation Endowment Fund for Clinical Research was established October 6, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Sandoz Research Incorporated, designated for support of clinical research in the College of Medicine and University Hospitals.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for clinical research, including salary and program costs in the College of Medicine and University Hospitals. Clinical research grants and fellowships in areas of mutual interest to the donor and the University will be awarded to eminent faculty members, selected by the Associate Dean of Clinical Affairs in consultation with the Vice President for Health Services and the Dean of the College of Medicine.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Medicine and the Vice President for Health Services in order to carry out the desire of the donor.

**The Sam Segall Memorial Library Fund**

The Sam Segall Memorial Library Fund was established October 6, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Samuel Segall (D.V.M. '50) of Youngstown, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees, with the right to invest and reinvest as occasion dictates.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Sam Segall Memorial Library Fund (contd)**

The annual income shall be used to purchase library books and periodicals for the Veterinary College Library; however, if the annual income of this fund is in excess of the amount needed to purchase library books and periodicals during any year, the excess shall be added to The Sam Segall Memorial Scholarship Fund.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donor.

##### **The Sam Segall Memorial Scholarship Fund**

The Sam Segall Memorial Scholarship Fund was established October 6, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Estate of Samuel Segall (D.V.M. '50) of Youngstown, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students enrolled in the College of Veterinary Medicine. The number and amount of each such scholarship and the recipient(s) thereof shall be selected by the Dean of the College of Veterinary Medicine and his or her associates, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donor.

##### **The Virginia I. Zirkle Scholarship Fund**

The Virginia I. Zirkle Scholarship Fund was established October 6, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Virginia I. Zirkle (B.S.H.E. '45) of Ottawa, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Virginia I. Zirkle Scholarship Fund (contd)**

The annual income shall be used to provide one or more scholarships to a student(s) from Putnam County enrolled in the College of Human Ecology or University College with a curricular academic program (CAP) of Human Ecology, at either the Columbus Campus or the Lima Campus. The student(s) should have good potential for career success, have good leadership qualities and be in the upper one-third of his/her high school graduating class academically. Preference should be given to a freshman. If a freshman student is not identified who meets these criteria, then an upper class undergraduate student from Putnam County should be selected. If neither a freshman student nor an upper class undergraduate student from Putnam County is identified, students from the following counties may be considered in order of donor's preference: Van Wert, Allen, Hancock, Henry, Defiance, Paulding. Criteria for selection shall be the same for these students. Selection of the recipient(s) shall be made by the College of Human Ecology Scholarship Committee in consultation with the University Committee on Student Financial Aid. Preference should be given to a Lima Campus student.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

**Change in Name and Description of Named Fund**

**The John J. Gerlach Chair Fund**

The John J. Gerlach Professorship Fund was established December 9, 1982, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the family and friends of John J. Gerlach (B.S.Bus.Adm. '23; M.A. '23). The name and description were revised October 6, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the fund's principal until the principal reaches \$1,250,000. At that time the annual income shall be used to provide support for the work of a distinguished teacher and scholar of accounting in the College of Business. Appointment to the Gerlach Chair will be recommended by the Dean of the College of Business to the Vice President for Academic Affairs and Provost of the University and approved by the Board of Trustees.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donors.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Change in Description of Named Funds**

##### **The Sphinx Endowment Fund**

The Sphinx Endowment Fund was established November 5, 1982, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members and friends of the Sphinx Senior Class Honor Society. The description was revised December 14, 1984; April 7, 1989; and has been further revised October 6, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income may be used to provide funds for any or all of the following:

- (1) Scholarships to one or more of the current class of active Sphinx members who are entering or are in their senior year of undergraduate study;
- (2) the continued maintenance of, and the addition of class plaques to, the Sphinx Plaza;
- (3) the costs of communications with Sphinx members for gift support and reunion activities; and
- (4) the support of current active chapter activities.

To the extent annual income is not adequate, principal may be used for the same purposes for which income may be used. Principal may also be used for the further development of the site and structures in and adjacent to the Sphinx Plaza and for the upkeep and maintenance of such further developments. At the end of each of the University's fiscal years, any unallocated income balance shall be transferred to the principal account. All expenditures of income and principal shall be approved in advance by the affirmative vote of a majority of the members of the Sphinx Alumni Council which shall be made up of the current active chapter Sphinx President, the Sphinx faculty advisor, the Director of Alumni Affairs, and three Sphinx alumni members appointed by The Ohio State University Alumni Association Board of Directors.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees of The Ohio State University.

##### **Robert M. Zollinger Lectureship Fund**

The Robert M. Zollinger Lectureship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members of the Zollinger Club and colleagues and friends of Robert M. Zollinger (B.S. '25, M.D. '27). The description was revised October 6, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Change in Description of Named Funds (contd)**

**Robert M. Zollinger Lectureship Fund (contd)**

The annual income shall be used to support a distinguished lectureship within the Department of Surgery. The speaker will be selected by the Executive Committee of the Zollinger/Ohio State University Surgical Society in consultation with the department chairperson.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Chairperson of the Department of Surgery, the Executive Committee of the Zollinger/Ohio State University Surgical Society and the Dean of the College of Medicine in order to carry out the desire of the donors.

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**Employment of Architect/Engineer and  
Request for Construction Bids**

Background

Coffey Road Intramural Fields

The installation of a grass playing surface in Ohio Stadium necessitates development and installation of replacement intramural facilities. This project will develop the field south of Woody Hayes Drive and east of Coffey Road to include five flag football fields, five softball fields, a small storage building, and restrooms. Two of the flag football fields and two of the softball fields will have lighting.

Funds for this project are available from the Athletic Department. Construction costs are estimated from the Athletic Department. Construction costs are estimated at \$375,000.00, and the total estimated project cost is \$475,000.00.

(See Appendix XX for map, page 369.)

**EMPLOYMENT OF ARCHITECT/ENGINEER AND  
REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 90-36

**COFFEY ROAD INTRAMURAL FIELDS**

**Synopsis:** The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Coffey Road Intramural Fields project.

**WHEREAS** this project will develop the fields south of Woody Hayes Drive and east of Coffey Road and install five flag football fields, five softball fields, a small storage building, and restrooms; and



**EMPLOYMENT OF ARCHITECT/ENGINEER AND  
REQUEST FOR CONSTRUCTION BIDS (contd)**

**COFFEY ROAD INTRAMURAL FIELDS (contd)**

WHEREAS the total estimated cost of this project is \$475,000.00, with the estimated construction cost being \$375,000.00, with funding provided from the Athletic Department:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select a qualified architectural/engineering firm as necessary for this project and that the fees for these services be negotiated between the firm selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**PURCHASE OF REAL PROPERTY**

Background

141 West 11th Avenue  
Columbus, Ohio

Location and Description

The property consists of a two and one-half story, four-unit brick and frame residence and a detached frame two-car garage located on approximately 0.11 acres at 141 West 11th Avenue in Columbus, Ohio. The house formerly was a single family residence which was converted for multiple tenancy in the 1950's. The house, built around the turn of the century, contains approximately 2,450 net square feet of living space, plus finished attic and unfinished basement, and is in excellent condition. The property is located within the South Campus acquisition boundary of the University's Master Plan.

Appraisals and Purchase Price

Two MAI appraisals, one by Wilhelm and Associates and the other by Charles R. Allen and Associates, both done in June 1988, valued the property at \$80,000.00. The owners, Charles Beatley of Alexandria, Virginia, and his sister Mary Alice Beatley Jordan of Sunland, California, have offered to sell the property to the University for that amount. Funds for the purchase will be provided from University funds, including funds resulting from the previous sale of properties outside the acquisition boundary.

**PURCHASE OF REAL PROPERTY (contd)**

Background (contd)

141 West 11th Avenue  
Columbus, Ohio (contd)

Use of the Property

Title to the property will be taken in the name of the State of Ohio for the use of The Ohio State University. Because the property is located within the Master Plan boundary, acquisition is important for the University's long-range plans for the South Campus area. Because of the excellent condition of the residence, the property will be used for housing or offices for the foreseeable future.

(See Appendix XXI for map, page 371.)

**PURCHASE OF REAL PROPERTY**

Resolution No. 90-37

141 WEST 11TH AVENUE  
COLUMBUS, OHIO

Synopsis: The Fiscal Affairs Committee recommended the purchase of the improved real property located at 141 West 11th Avenue in Columbus, Ohio.

WHEREAS The Ohio State University has been presented with an opportunity to purchase the property located at 141 West 11th Avenue in Columbus, Ohio; and

WHEREAS this property has an appraised value of \$80,000.00 and the owners, Charles Beatley of Alexandria, Virginia, and Mary Alice Beatley Jordan of Sunland, California, have offered to sell the property to the University at that price; and

WHEREAS this property is located within the South Campus acquisition boundary of the University's Master Plan and the appropriate University officers have determined that the purchase of this property is in the best interest of the University; and

WHEREAS funds for the purchase will be provided from general University funds, including those resulting from previous sales of property outside the acquisition boundary:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the State of Ohio for the use of The Ohio State University, the improved real property located at 141 West 11th Avenue at a price not to exceed \$80,000.00, upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**STRS EARLY RETIREMENT INCENTIVE PROGRAM**

Resolution No. 90-38

Synopsis: The Fiscal Affairs Committee recommended the approval of the STRS Early Retirement Incentive Program.

WHEREAS in July 1983, the Ohio General Assembly enacted Amended Substitute House Bill 410 which became effective on October 7, 1983, enabling universities and colleges to establish retirement incentive plans for individuals at their respective institutions who are members of the State Teachers Retirement System (STRS); and

WHEREAS The Ohio State University desires to adopt such a retirement incentive plan in order to provide more flexibility in its long term planning for its academic human resource needs:

NOW THEREFORE

BE IT RESOLVED, That effective January 1, 1990, and continuing for two years thereafter, the University will purchase service credit, in one year increments, for eligible STRS members electing to retire under this plan, and further that the amount of service credit purchased shall not exceed the lesser of five years or one-fifth of the individual's total service credited by STRS as of the date the eligible STRS member elects to participate in this plan; and

BE IT FURTHER RESOLVED, That to be eligible, all members must be members of STRS and be currently eligible to retire or eligible to retire after including the years of service credit to be purchased under the plan; and

BE IT FURTHER RESOLVED, That the maximum number of eligible members under this plan will be limited to five percent (5%) of the total number of individuals at the University who are members of STRS as of January 1, 1990, and further that if the total number of persons applying for this program exceeds the five percent (5%) maximum, then approval for participation will be determined in accordance with Section 3307.35; and

BE IT FURTHER RESOLVED, That those individuals who are eligible and approved for participation in this plan must retire within ninety (90) days of notification that additional service credit has been purchased; and further that those individuals who retire under this plan will not be eligible for participation in any other supplemental or early retirement program previously established by the University; and

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Personnel Services are hereby authorized to notify the State Teachers Retirement System on the official form approved by that agency of The Ohio State University's election to participate in the retirement incentive plan in accordance with Section 3307.35 and the terms of this resolution.

BE IT FURTHER RESOLVED, That those individuals who retire under this plan will not be eligible for re-employment with the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**PERS EARLY RETIREMENT INCENTIVE PROGRAM**

Resolution No. 90-39

Synopsis: The Fiscal Affairs Committee recommended approval of the PERS Early Retirement Incentive Program.

WHEREAS the Ohio General Assembly enacted Amended Substitute House Bill 706 which enables State agencies and institutions of higher education to establish retirement incentive plans for individuals at their respective institutions who are members of the Public Employees Retirement System (PERS); and

WHEREAS The Ohio State University desires to adopt such a retirement incentive plan in order to provide more flexibility in its long term planning for its human resource needs:

**NOW THEREFORE**

BE IT RESOLVED, That effective January 1, 1990, and continuing for two years thereafter, the University will purchase service credit, in one year increments, for eligible PERS members electing to retire under this plan, and further that the amount of service credit purchased shall not exceed the lesser of five years or one-fifth of the individual's total service credited by PERS as of the date the eligible PERS member elects to participate in this plan; and

BE IT FURTHER RESOLVED, That to be eligible, all members must be members of PERS and be currently eligible to retire or eligible to retire after including the years of service credit to be purchased under the plan; and

BE IT FURTHER RESOLVED, That the maximum number of eligible members under this plan will be limited to five percent (5%) of the total number of individuals at the University who are members of PERS as of January 1, 1990, and further that if the total number of persons applying for this program exceeds the five percent (5%) maximum, then approval for participation will be determined in accordance with Section 145.297(C); and

BE IT FURTHER RESOLVED, That those individuals who are eligible and approved for participation in this plan must retire within ninety (90) days of notification that additional service credit has been purchased; and further that those individuals who retire under this plan will not be eligible for participation in any other supplemental or early retirement program previously established by the University; and

BE IT FURTHER RESOLVED, That the President and/or the Vice President for Personnel Services are hereby authorized to notify the Public Employees Retirement System on the official form approved by that agency of The Ohio State University's election to participate in the retirement incentive plan in accordance with Section 145.297 and the terms of this resolution.

BE IT FURTHER RESOLVED, That those individuals who retire under this plan will not be eligible for re-employment with the University.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**AWARD OF THE LOW COST MEDICAL PLAN (BUCKEYE PLAN)  
FOR THE FACULTY/STAFF BENEFIT PROGRAM**

Resolution No. 90-40

Synopsis: The Fiscal Affairs Committee recommended the award of the low cost medical plan (Buckeye Plan) for the faculty/staff benefit program.

WHEREAS the Board of Trustees in a previous resolution directed the Vice President for Personnel Services to investigate another option for University faculty and staff in the form of a low cost medical plan; and

WHEREAS William M. Mercer-Meidinger-Hansen, Incorporated was employed to assist in the plan design and preparation of, specifications and proposal forms; and

WHEREAS after public advertisement, specification and proposal forms were mailed to eighteen carriers; six did not respond, nine declined in writing to quote, and three carriers submitted proposals; and

WHEREAS the appropriate University offices, Coopers & Lybrand and William M. Mercer-Meidinger-Hansen, Incorporated have reviewed the proposals and, based on financial considerations, claims processing capabilities, other administrative services and carrier financial stability, it is the recommendation of the Office of Personnel Services that the best package for the low cost medical plan, to be named the Buckeye Plan, is offered by John Hancock Mutual Life Insurance Company. The monthly premiums quoted by John Hancock are:

<u>Type of Coverage</u>	<u>Total Premiums</u>	<u>University Share</u>	<u>Individual Share</u>
Single	\$ 81.11	\$ 78.11	\$ 3.00
Two Person	162.22	156.22	6.00
Family	256.10	248.10	8.00

**NOW THEREFORE**

BE IT RESOLVED, That the contract for coverage under the low cost medical plan (Buckeye Plan) be awarded for a one-year period effective January 1, 1990, with the premium and the performance of the carrier to be reviewed annually. This insurance contract will remain in force after the initial term until the Board of Trustees deems it appropriate to review the designation of the carrier and/or seek a new premium quotation.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS**

Resolution No. 90-41

Synopsis: The Fiscal Affairs Committee recommended the approval for reimbursement of expenses for designated administrative officials.

**REPORT - EXPENSES FOR DESIGNATED ADMINISTRATIVE OFFICIALS (contd)**

WHEREAS the Fiscal Affairs Committee has authorized the payment of expenses for designated administrative officials; and

WHEREAS it is deemed in the best interest of the University for the Fiscal Affairs Committee to provide from the unrestricted gifts to the University Endowment Fund on an appropriate basis, to the President and designated University officials, reimbursement for expenditures which are directly and necessarily related to the performance of their assigned responsibilities and in the best interest of the University:

NOW THEREFORE

BE IT RESOLVED, That the Fiscal Affairs Committee be authorized to provide reimbursement to designated University officials from unrestricted gifts to the University Endowment Fund.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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Thereupon the Board adjourned to meet Friday, November 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

John W. Berry  
Chairman

APPENDIX XVI

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
September 15, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees October 6, 1989  
(See page 298)



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
September 15, 1989**

Endowment Composition

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>09-15-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 37,235,188	14.33%
R. Meeder	-0-	-0-	14,439,143 (1)	5.56
Nicholas-Applegate	11,475,663	4.63	12,988,716	5.00
Siebel	32,173,227	12.98	34,098,205	13.12
Mutual Fund	13,552,018	5.47	14,632,863	5.63
OSU Managed	<u>80,168,113</u>	<u>32.35</u>	<u>66,781,966</u>	<u>25.70</u>
<b>Total Equities</b>	<b>\$171,998,341</b>	<b>69.41%</b>	<b>\$180,176,081</b>	<b>69.34%</b>
<b>Fixed Income:</b>				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,753,552	9.14%
Cambridge	951,048	0.38	941,730	0.36
Duff & Phelps	10,243,208	4.13	10,249,518	3.95
WR Lazard	-0-	-0-	10,062,634 (2)	3.87
STW Fixed Income	24,150,270	9.75	24,055,212	9.26
OSU - GNMA	10,144,887	4.10	10,143,882	3.90
OSU Managed	<u>6,465,211</u>	<u>2.61</u>	<u>466,796</u>	<u>0.18</u>
<b>Total Fixed Income</b>	<b>\$ 75,796,204</b>	<b>30.59%</b>	<b>\$ 79,673,324</b>	<b>30.66%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$247,794,545</b>	<b><u>100.00%</u></b>	<b>\$259,849,405</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 39,503,844</b>		<b>\$ 39,704,387</b>	
<b>Total Portfolio</b>	<b><u>\$287,298,389</u></b>		<b><u>\$299,553,792</u></b>	

(1) R. Meeder began as advisor on August 8, 1989 with \$15,000,000.

(2) WR Lazard began as advisor on August 8, 1989 with \$10,000,000.



# Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value September '88 to September '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.35% (1)	20.91%	24.26%
Common Stock (R. Meeder)	0.20 (2)	(3.74)	(3.54) (14)
Common Stock (Nicholas-Applegate)	1.56 (3)	30.07	31.63
Common Stock (Siebel)	5.06 (4)	23.30	28.36
Mutual Fund	2.85	24.68	27.53
Common Stock (OSU Managed)	5.74 (5)	14.98	20.72
Standard & Poor's Index	4.07	27.49	31.56
<b>Real Estate:</b>	3.88%	-0- (13)	3.88%
<b>Fixed Income:</b>			
Bonds (Boatmen's Trust)	8.16% (6)	12.63%	20.79%
Bonds (Cambridge)	8.40 (7)	1.85	10.25
Bonds (Duff & Phelps)	8.13 (8)	3.23	11.36
Bonds (WR Lazard)	0.88 (9)	0.63	1.51 (14)
Bonds (SIW Fixed Income)	9.02 (10)	8.41	17.43
Bonds (OSU - GNMA)	9.83 (11)	1.97	11.80
Bonds (OSU Managed)	9.04 (12)	(0.38)	8.66
Merrill Lynch Corporate/ Government Master	8.76	3.91	12.67
Shearson Lehman Hutton Government/ Corporate Index	9.32	3.99	13.31

- (1) 1.4% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 7.9%.
- (2) 0.2% of R. Meeder portfolio is made up of cash and cash equivalents which earn 7.9%.
- (3) 2.6% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 7.9%.
- (4) 52.4% of Siebel portfolio is made up of cash and cash equivalents which earn 8.6%.
- (5) 55.1% of OSU Managed portfolio is made up of cash and cash equivalents which earn 8.8%.
- (6) 6.0% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 8.6%.
- (7) 1.3% of Cambridge portfolio is made up of cash and cash equivalents which earn 7.9%.
- (8) 1.0% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 7.9%.
- (9) 14.4% of WR Lazard portfolio is made up of cash and cash equivalents which earn 8.7%.
- (10) 1.2% of SIW Fixed Income portfolio is made up of cash and cash equivalents which earn 7.9%.
- (11) 10.3% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.7%.
- (12) 0.0% of OSU Managed portfolio is made up of cash and cash equivalents.
- (13) Not able to compare 12 months.
- (14) Reflects return from initial allocation (August 8, 1989) only.
- (15) Endowment Fund Income through September 30, 1989, totaled approximately \$3,827,000.
- (16) Income from University Cash Investments through September 30, 1989, totaled approximately \$3,387,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>09-15-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$124,594,786	41.59%
Principal Additions	4,979,256	Fixed Income	75,361,681	25.16
Principal Withdrawals	(45,000)	Real Estate	39,600,000	13.22
Change in Market Value	<u>7,321,147</u>	Cash	<u>59,997,325</u>	<u>20.03</u>
Current Market Value	<u>\$299,553,792</u>	Total Portfolio	<u>\$299,553,792</u>	<u>100.00%</u>

Activities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
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No Activity

Real Estate

Sale

Total Investment

No Activity

**The Ohio State University  
Common & Preferred Stock**

**Common & Preferred Stock**

**Purchases Made During Period**

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
7,100	Biomet, Inc.	Chicago	26.0183	\$ 184,730.00	\$ 0.00
4,000	Gap, Inc.	"	50.8750	203,760.00	3,040.00
5,600	Home Depot, Inc.	"	34.6530	194,420.80	672.00
4,100	Illinois Tool Works, Inc.	"	45.8720	188,341.70	2,460.00
2,800	RPM, Inc.	"	18.9060	52,936.80	1,736.00
5,100	Telecredit, Inc.	"	37.4020	190,750.00	5,100.00
2,900	Temple-Inland, Inc.	"	66.1870	192,130.80	3,364.00
6,900	Textron, Inc.	"	27.5500	190,543.50	6,900.00
2,000	Baxter International, Inc.	Nicholas- Applegate	23.6250	47,370.00	1,120.00
4,100	Dayton Hudson Corp.	"	62.7050	257,336.50	4,592.00
6,100	Flight Safety International, Inc.	"	43.2655	264,285.30	976.00
12,400	Foster Wheeler, Inc.	"	21.4520	266,748.80	5,456.00
2,500	Liz Claiborne, Inc.	"	24.7500	61,875.00	425.00
2,400	Lotus Development Corp.	"	26.5000	63,600.00	0.00
1,600	Microsoft Corp.	"	63.1119	100,979.12	0.00
800	Transco Energy Co.	"	48.4460	38,804.80	1,088.00
1,700	Wheelabrator Technologies, Inc.	"	39.0960	66,565.20	0.00
328	Banc One Corp.*	OSU	35.7029	11,710.56	341.12
300	Bob Evans Farms, Inc.*	"	15.1875	4,556.25	72.00
80	Worthington Industries, Inc.*	"	24.6250	1,970.00	35.20
10,500	Intel Corp.	Siebel	30.5000	<u>320,250.00</u>	<u>0.00</u>
				<u>\$2,903,665.13</u>	<u>\$37,377.32</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
4,200	Carter Wallace, Inc.	Chicago	49.8750	\$ 209,195.01	\$ 38,831.46
8,700	Flowers Industries, Inc.	"	19.5000	169,078.84	10,013.34
3,537	Marion Laboratories, Inc.	"	38.0000	134,406.00	68,741.59
6,200	Masco Corp.	"	28.5000	176,291.11	110,567.40
3,900	Mercantile Stores, Inc.	"	49.1250	191,327.60	44,428.65
6,300	Ryder Systems, Inc.	"	29.0390	182,530.10	86,250.81
4,200	Scott Paper Co.	"	50.6250	212,344.91	62,971.91
3,700	Sealed Air Corp.	"	17.2500	63,582.37	57,391.90
5,400	Universal Corp.	"	38.2500	206,192.11	40,391.88
3,100	Westinghouse Electric Corp.	"	68.2120	211,248.65	53,328.45
2,800	Albertson's, Inc.	Nicholas- Applegate	53.3750	149,277.01	69,074.35
1,500	Home Depot, Inc.	"	34.5000	51,658.27	26,016.37
5,300	Motorola, Inc.	"	57.8750	306,409.27	1,180.77
2,200	Philip Morris Companies, Inc.	"	160.0438	351,952.71	138,065.78
5,400	US Air Group, Inc.	"	48.3148	260,566.98	45,367.38
820	Vivra, Inc.	"	28.3750	23,217.52	2,817.31
7	Ford Motor Co.*	OSU	52.5000	390.73	10.11
1,733	Putnam High Income Government Trust Fund*	"	12.3308	21,369.31	(411.14)
4,000	AMR Corp.	Siebel	92.5625	369,957.64	180,376.57
16,500	Consolidated Rail Corp.	"	45.0559	<u>742,242.71</u>	<u>149,826.71</u>
				<u>\$4,033,238.85</u>	<u>\$1,185,241.60</u>

\* Gift.

**The Ohio State University  
Bonds/Notes**

**Bonds**

**Purchases Made During Period**

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
685,061	GMAC FHA Project #195 7.430% 11/01/25	Boatmen's	8.6679	8.7352	85.7188	\$ 587,225.49
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	8.1301	8.1300	99.9375	924,421.88
5,000,000	U.S. Treasury Bond 10.750% 08/15/05	STW	8.8694	8.3254	121.2031	6,060,156.45
						<u>\$7,571,803.82</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
5,000,000	U.S. Treasury Bond 10.375% 11/15/12	STW	118.7344	\$5,936,718.75	\$403,100.32
				<u>\$5,936,718.75</u>	<u>\$403,100.32</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	7.97%	1962	\$ 435,204	\$ 1,550,000	06/89
Building and 5.56 acres at 1100 Kinnear Road	3.74	1984	825,000	2,650,000	06/89
Building and 2.633 acres at 1900 Kenny Road	21.84	1961	659,930	1,250,000	06/89
Building and 6.41 acres at 1960 Kenny Road	17.36	1971	1,320,693	2,500,000	06/89
Building and 6.328 acres at 1991 Kenny Road	8.81	1968	170,000	696,000	06/89
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	29,999 (1)	29,999	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	74,388 (1)	74,388	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	770,000	06/89
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	2.94	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Elterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,335,328</u>	<u>\$39,704,387</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

**MEMORANDUM**

Subject: Proxy Solicitations  
Date: September 30, 1989  
From: James L. Nichols, Treasurer *James L. Nichols*  
To: Board of Trustees, The Ohio State University

During the months of August and September 1989, the University voted nineteen proxies.

Management proposals were as follows:

- 1) Election of the Board of Directors;
- 2) Approval to increase authorized common stock shares;
- 3) Ratification of independent auditors;
- 4) Approval of a Director Stock Option Plan;
- 5) Approval of a 1989 Stock Award Plan;
- 6) Amendment to limit the liability of Directors and Officers;
- 7) Approval to continue a Stock Option Plan for seasonal employees and increase common shares for said plan;
- 8) Amendment to classify voting of the Board of Directors and require a 75% affirmative vote for their removal;
- 9) Allow the Board of Directors to establish voting rights for preferred stock;
- 10) Approval of the 1989 non-qualified Stock Option Plan;
- 11) Allow for the issuance of common stock pursuant to certain employment contracts;
- 12) Approval to change the name of the corporation;
- 13) Amendment to reduce the number of directors and size of the respective classes of directors;
- 14) Approval to increase authorized shares for a stock option plan.

Shareholder proposals were as follows:

- 1) Enact cumulative voting of the Board of Directors;
- 2) Limit to six years, the term for outside directors.

The University voted for all Management proposals and against the shareholder proposals, which Management also opposed.



The nineteen corporations were:

- 1) Briggs and Stratton Corporation
- 2) ConAgra, Incorporated
- 3) Dean Foods Company
- 4) Gerber Scientific Incorporated
- 5) General Mills Incorporated
- 6) Handleman Company
- 7) Herman Miller Incorporated
- 8) H.J. Heinz Company
- 9) H & R Block, Incorporated
- 10) International Minerals and Chemical Corporation
- 11) Medtronic Incorporated
- 12) Morrison Incorporated
- 13) Premier Industrial Corporation
- 14) RPM, Incorporated
- 15) Skyline Corporation
- 16) Strata Corporation
- 17) Tyco Labs Incorporated
- 18) Universal Corporation
- 19) Worthington Industries Incorporated

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**APPENDIX XVII**

**1989 FARM SCIENCE REVIEW**

**Presented to the Agricultural Affairs Committee  
(See page 312)**

1989 Farm Science Review  
Board of Trustees Agricultural Affairs Committee  
October 6, 1989

The 27th Farm Science Review enjoyed both perfect weather and record attendance. The weather, coupled with late maturing crops across most of the Midwest, assisted in the Farm Science Review, Ohio State's largest, open-air educational activity, setting five new records:

- 1) largest, 3-day total number of paid admissions - 126,400
- 2) largest, single-day total paid admissions - 60,300
- 3) largest, 3-day total number of vehicles parked - 41,262
- 4) largest, 3-day total buses parked - 292
- 5) greatest exhibitor square footage - 1.9 million square feet (equal to approximately 43 acres, an increase of 3% over the previous high)

The trend toward a decreasing number of commercial exhibitors over the previous five years was reversed, with 509 commercial entries, including over 5,000 trademarks of services and equipment. This represented a 5% exhibitor increase over 1988 and a 10% increase in square footage of exhibitor space over the 1988 figures. Considering the continuing trend toward decreasing participation at other, similar expositions around the country, and the continuing increase in mergers of agribusinesses, these statistics are even more remarkable.

Farm Science Review, while sponsored principally by the College of Agriculture (including the Ohio Cooperative Extension Service and the Ohio Agricultural Research and Development Center), can be considered a University activity, having active participation by the Colleges of Veterinary Medicine, Human Ecology, and Biological Sciences. All faculty, staff and students, with valid Ohio State identification, are invited to attend at no charge. Shuttle buses run from the College of Agriculture campus to the Farm Science Review throughout each day.

The 1989 Farm Science Review also saw increased participation by various categories of attendees:

- 1) the number of minorities and women increased
- 2) the number of non-agribusiness persons increased
- 3) the number of out-of-state agribusiness persons increased

For example, 3% of those in attendance were from Indiana, 2% from Pennsylvania, 5% from Kentucky, and 1% from West Virginia. The only decrease in a participant category this year was in the number of out-of-country visitors. A similar Canadian farm exposition in western Ontario overlapped the dates of the 1989 Review and this is thought to be the cause for the decrease in Canadian participation.

Work has already begun on the 1990 Review. It is hoped that the outreach educational program, known as the Farm Science Review, will touch a still greater number of people in 1990.

**APPENDIX XVIII**

**PROGRESS REPORT AT THE PIKETON RESEARCH AND EXTENSION CENTER**

**Presented to the Agricultural Affairs Committee  
(See page 312)**

**Progress Report**  
**Piketon Research and Extension Center**  
**Board of Trustees Agricultural Affairs Committee**  
**October, 6, 1989**

**Name**

The 4.1 million dollar capital funds for the Piketon Research and Extension Center was approved in June 1986 by the Ohio Legislature. Operating funds of 1.5 million dollars were in this biennial budget. The Piketon Research and Extension Center is an unique addition to Ohio State's Ohio Agricultural Research and Development Center and Ohio Cooperative Extension Service. The Center will support programs targeted to Southern and Southeastern Ohio.

**Facilities**

The new Center will include a 16,456 square foot office, lab, headhouse, and greenhouse building; a 4,784 square foot aquaculture building; a 2,883 square foot farm operations shop; and several site improvements including aquaculture ponds, a 4-acre water reservoir, and research plots on 160 acres of land. Bids were opened on July 30, 1989.

The buildings will be masonry construction with wood siding. Wood will also be emphasized in the entry, lobby, and the multi-purpose room.

**Programs**

The programs at Piketon will address specific needs of Southern and Southeastern Ohio. The major programs of aquaculture, forestry, agronomy, horticulture, economic development, and water quality and management were developed with input of the local people.

**Organization**

A coordinator, research assistants or associates, extension assistants or associates, a farm labor support crew, and secretaries will be at the Center. The coordinator will provide overall direction at Piketon and be the contact with the Directors of the Ohio Agricultural Research and Development Center and the Ohio Cooperative Extension Service.

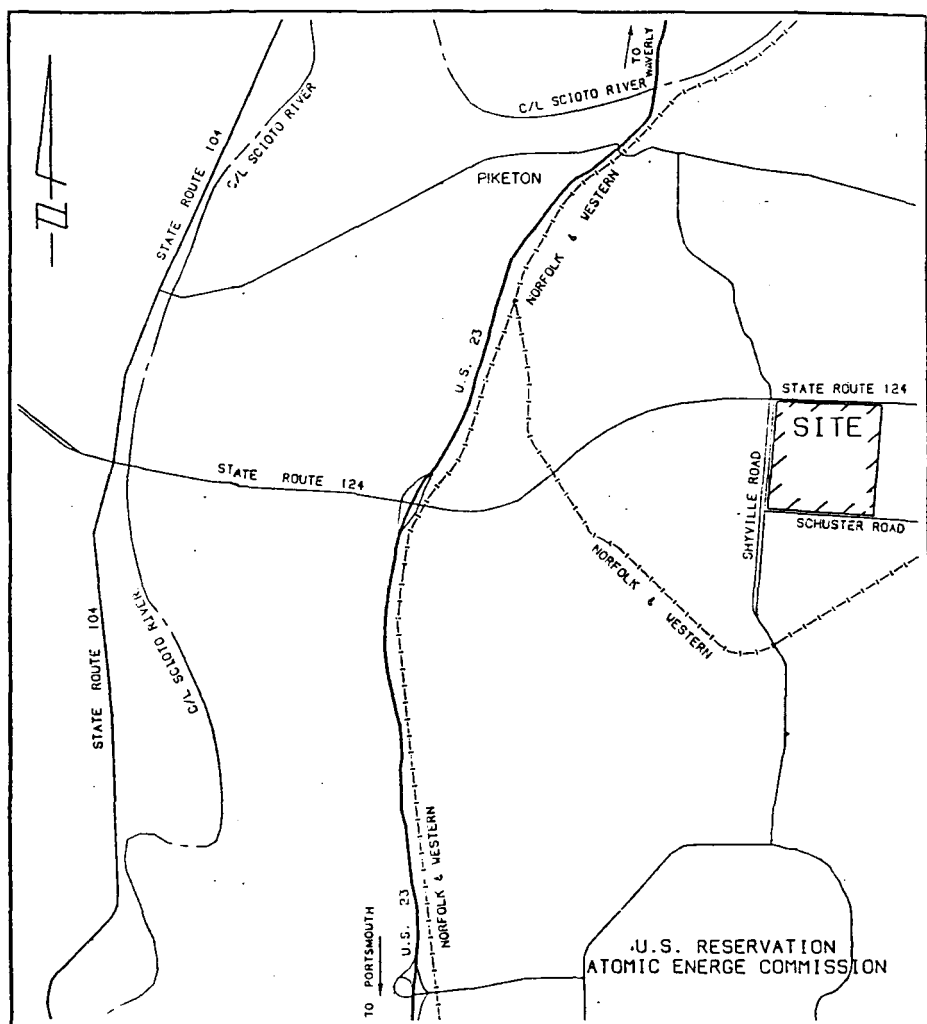
The research and extension programs will be conducted by the Center staff working on specific projects under the direction of Ohio State University faculty members. A portion of the operating funds will be available for special, short-term applied type of projects.

**Start Up**

Operating funds for the Piketon Research and Extension Center were received July 1, 1989. Office space has been leased in the Scioto Valley School Administration Building in Piketon, Ohio. Dave Rausch is in the office and will assist in the monitoring of construction and with the water quality and management program. The hiring of a site coordinator and adding research/extension assistants or associates in forestry, economic development, and horticulture are proceeding. Additional staff will be hired as facilities become available and projects are approved.

Some water aquifer projects are already started on leased bottom land near Piketon. The initial work has been on historical record studies. The land will be set up for monitoring and on-site projects will be started in 1990.

# PIKETON RESEARCH EXTENSION CENTER



VICINITY MAP  
NOT TO SCALE

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## APPENDIX XIX

### THE OHIO STATE UNIVERSITY CAMPAIGN

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees October 6, 1989  
(See page 312)

THE OHIO STATE UNIVERSITY  
OFFICE OF UNIVERSITY DEVELOPMENT  
TOTAL UNIVERSITY PRIVATE GIFT SUPPORT

July-June  
1987-88 compared to 1988-89

GIFT RECEIPTS BY DONOR TYPE

	<u>1987-88</u>	Donors July through June <u>1988-89</u>	<u>% Change</u>	<u>1987-88</u>	Dollars July through June <u>1988-89</u>	<u>% Change</u>
Alumni	51,542	49,043	(5)	\$10,766,495	\$15,818,050	47
Non-Alumni	25,408	25,289	1	7,843,080	6,645,769	(16)
Corporations	2,420	2,774	15	24,101,224	27,498,150	14
Corporate Foundations	279	288	4	1,945,716	2,282,256	18
Private Foundations	161	170	6	11,009,701	5,956,628	(46)
Other	<u>1,233</u>	<u>1,292</u>	5	<u>8,240,989</u>	<u>10,375,779</u>	26
TOTAL	81,043	78,856	(3)	\$63,907,205	\$68,576,632	8

The Ohio State University Campaign  
Progress Report  
@ June 30, 1989

	<u>*Campaign Exectancies</u>	<u>Current Year Campaign Receipts (Jul 88 -June 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$71,442,219	\$15,818,050	\$38,283,424	\$125,543,693	\$122,500,000	102
Friends	36,801,753	6,645,769	28,643,850	72,091,372	70,000,000	103
**Corporations	13,800,664	40,156,185	103,403,568	157,360,417	122,500,000	129
Foundations	<u>2,963,625</u>	<u>5,956,628</u>	<u>19,935,229</u>	<u>28,855,482</u>	<u>35,000,000</u>	<u>85</u>
Totals	\$125,008,261	\$68,576,632	\$190,266,071	\$383,850,964	\$350,000,000	110

\*Defined as pledges and deferred commitments less payments already received.

\*\*Corporations, businesses, associations and private agencies.

THE OHIO STATE UNIVERSITY  
OFFICE OF UNIVERSITY DEVELOPMENT  
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-August  
1988-89 compared to 1989-90

GIFT RECEIPTS BY DONOR TYPE

	Donors July through August				Dollars July through August		
	<u>1988-89</u>	<u>1989-90</u>	<u>% Change</u>	<u>1988-89</u>	<u>1989-90</u>	<u>% Change</u>	
Alumni	7,133	5,085	(29)	\$3,695,167	\$804,756	(79)	
Non-Alumni	5,661	4,182	(27)	736,265	390,245	(47)	
Corporations	429	495	16	908,054	1,628,118	80	
Corporate Foundations	94	100	7	158,577	269,270	71	
Private Foundations	30	29	(4)	452,042	351,404	(23)	
Other	<u>182</u>	<u>142</u>	22	<u>1,003,624</u>	<u>692,017</u>	(31)	
TOTAL	13,529	10,033	(26)	\$6,953,729	\$4,135,810	(41)	

The Ohio State University Campaign  
Progress Report  
@ August 31, 1989

	<u>*Campaign Exectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Aug 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1989</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$76,358,162	\$804,756	\$54,101,474	\$131,264,392	\$122,500,000	107
Friends	45,150,811	390,245	35,289,619	80,830,675	70,000,000	116
**Corporations	13,782,765	2,589,405	143,559,753	159,931,923	122,500,000	131
Foundations	<u>2,957,625</u>	<u>351,404</u>	<u>25,891,857</u>	<u>29,200,886</u>	<u>35,000,000</u>	84
Totals	\$138,249,363	\$4,135,810	\$258,842,703	\$401,227,876	\$350,000,000	115

\*Defined as pledges and deferred commitments less payments already received.

\*\*Corporations, businesses, associations and private agencies.

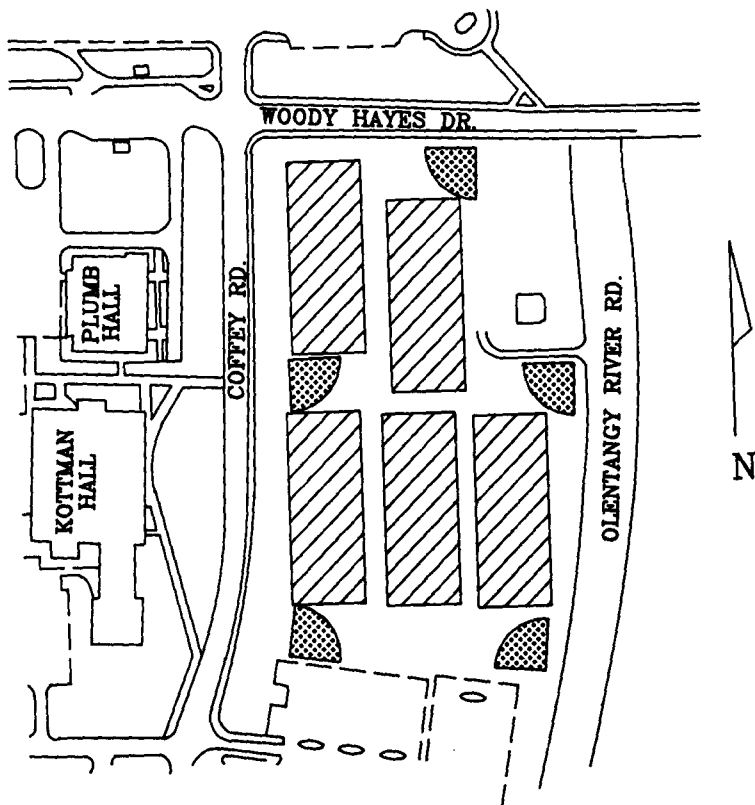
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APPENDIX XX

COFFEY ROAD INTRAMURAL FIELDS

Adopted by the Board of Trustees October 6, 1989  
(See page 338)

# COFFEY ROAD INTRAMURAL FIELDS



OFFICE OF BUSINESS AND ADMINISTRATION  
OCTOBER 6, 1989

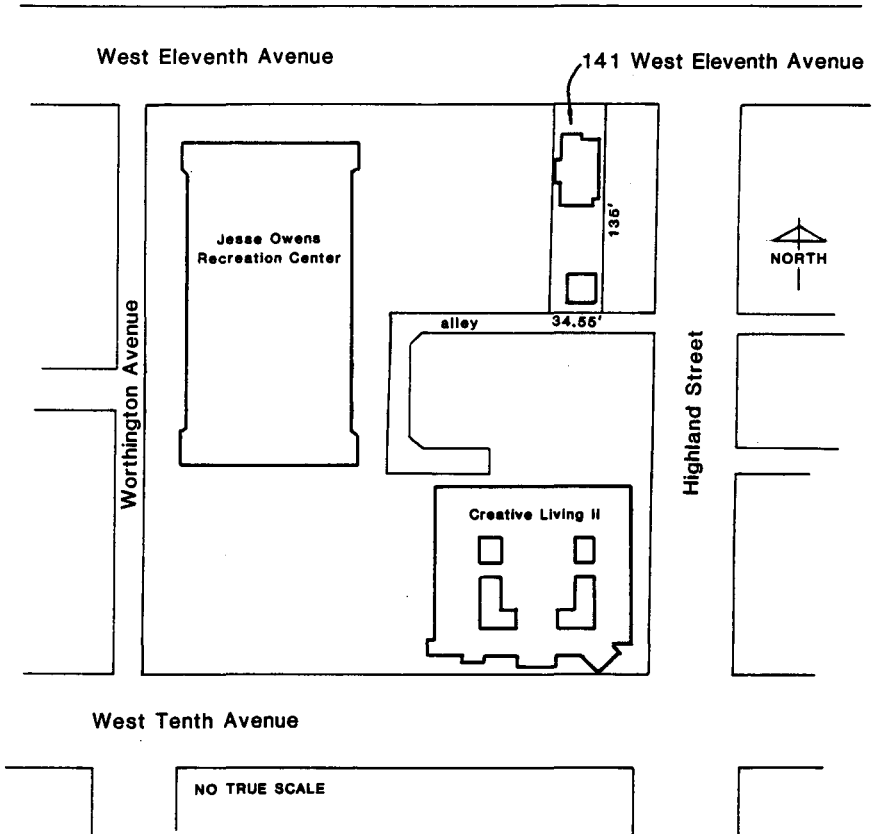


· APPENDIX XXI

141 WEST 11TH AVENUE  
COLUMBUS, OHIO

Adopted by the Board of Trustees October 6, 1989  
(See page 340)

# Proposed Purchase of Property at 141 West Eleventh Avenue



Office of Business and Administration  
October 6, 1989

THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTY-FIFTH MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, November 3, 1989

The Board of Trustees met at its regular monthly meeting on Friday, November 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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November 3, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on November 3, 1989, at 11:30 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Alex Shumate, and Laurel A. Davis.

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## ENROLLMENT REPORT - AUTUMN QUARTER 1989

Mr. Ihrig:

We have with us today Jim Mager, Director of Admissions, and Gene Schuster, the University Registrar, to try and keep me in line to make sure I give you the real story on this. The overall enrollment for Autumn Quarter 1989 is 58,994 students for the University. That represents a decrease from last year of 1.4 percent, as well as a decrease from our projected target for the year of 2.1 percent. Actually, this year in our targets we were down in all categories except for the category of continuing students. There was an increase over the target there due to retention as well as the continual upper divisions within the University. Those represents the ranks of sophomore, junior and senior.

The decrease occurred on the Columbus campus. The regional campuses were up, and ATI continued on its recovery from three to four years ago. The real decrease from last year relates to the entering freshmen. That was a planned decrease. If you will remember, our long-range plan for entering freshmen at Ohio State is 6,500 a year to keep within the enrollment limits set by the State of Ohio.

Last year because of selective admissions and trying to understand the selective admissions process, we reached 7,100, which is far over our target. It put a real strain on the University to handle that many incoming freshmen. This year our target was 6,300 to help compensate for that high enrollment last year of freshmen, and to get us back into the 6,500 on a continuing basis.

Again this year, the quality of the freshman applications and the quality of those admitted had gone up, but the actual retention of those who were actually admitted to enrollment, those percentages decreased on us this year unexpectedly. Last year they went up on us unexpectedly, so we are still learning how to deal with a selective admissions environment and this is going to take us some time. This is like trying to dock and ocean liner and making sure we don't dock it half a mile off the course or run into the beach. We are still in that learning process and I know it will improve over time.

Now, the other factor we have going, when looking at the overall enrollment, is that higher education in Ohio had a 3.5 percent increase. Universities in Ohio only had a 1.6 percent increase as reported by the Board of Regents. A much higher gross, over 5 percent, was reported in the two-year technical colleges, community colleges, and the regional campuses throughout Ohio. OSU Columbus, had a decrease of 1.4 percent. Those trends are going to be interesting to watch over the next decade, especially since we know the high school graduating classes to come over the next 18 years have a projected decrease of 12.5 percent in graduates. Now, being the flagship institution, the demand will still be to enter Ohio State University. Also countering that decrease in the number of expected high school graduates, is an increase in the college going rate, which increased from 40 percent last year to over 46 percent this year. And, it is estimated to go up again to 48 percent next year.

## ENROLLMENT REPORT - AUTUMN QUARTER 1989 (contd)

Mr. Ihrig: (contd)

So more and more students are interested in going on to higher education in Ohio and that is very good news. That will be happening in the face of a declining high school graduating class. A lot of first time higher education students, however, will tend to go toward the community colleges and the technical colleges, and those are going to be the growth areas as we see more and more students going on to higher education. Whereas for this University, which is capped -- and we have no interest in growing -- our challenge will be to make sure we have the resources -- since our resources are tied to enrollment -- to continue the quality of the flagship institution in Ohio. I think that is going to be our challenge.

In addition to those issues and with the first quarter freshman issue, we had a slight decrease in the retention of our freshman class -- and it was about a 1 percent decrease -- and I think that can be attributed to having a very large class of 7,100 last year. That is another reason why we are trying to keep the freshman class at a very even rate of 6,500 per year.

Enrollments in the graduate area of the University are down 1.3 percent. This is due to a reduction in part-time graduate students, whereas full-time graduate students are up this year. On our graduate decrease, it was primarily due to the part-time students being down. A heavy part of this was in the College of Education where they are changing the way they offer some of their part-time classes. They changed some hours of the day and made the classes go later, and they have reduced some of their off campus courses as well. That had an impact in reducing the number of students in that area. That was where a large majority occurred.

In some of the other areas there were some planned reductions. Again, the graduate departments will admit graduate students based on how many students were accepted the prior year and how many spaces they have available. So, if they had a high number the previous year, they will have some planned reductions the following year.

We are not completely sure why Continuing Education and the part-time students had a real decrease this year. We think part of this is due to the selective admissions impact at Ohio State. Continuing Education classes are not affected by selective admission. We think some students may have stayed away and not come in because of the publicity of selective admissions. I think that is more of a public relations problem.

Another problems is that the federal government has restricted financial aid for part-time continuing education students much more than they have in the past. So, we are just trying to understand what is really happening in those areas.

The domestic and foreign applications for our graduate programs are up again, and the quality of the applicants is up. The fellowship applicants have a significant increase with top quality students being involved. So, the good news in the graduate area is that we are having a real increase in the quality of the student. In addition, full-time students are taking a larger load of graduate studies. Last year we had a significant drop off of graduate course loads and that was tied into the tax issue of whether the graduate stipends were taxed or not. That has cleared up and we have seen recovery of that, which is good news both for the students and for our subsidies.

**ENROLLMENT REPORT - AUTUMN QUARTER 1989 (contd)**

Mr. Ihrig: (contd)

The professional colleges are maintaining basically on target. The reductions there are planned reductions in the College of Medicine -- over five years they are taking a 10 percent reduction in the size of the entering classes. Dentistry has had a planned reduction, going from an entering class of 110 down to 100. We see no significant changes there.

We are not over-enrolled at Ohio State this year, and it is the first time I have been able to say that. We have always been over the 40,000 state mandated limit. Our preliminary data indicate we will be 39,727. I would prefer to be right at 40,000 for obvious reasons, but at this point we are slightly below it. That is primarily because of the number of credit hours in some of the areas that had been decreasing in the past and have now turned around. Agriculture appears to have bottomed out in the number of decreases and turned around. Allied Medicine, Dental Hygiene had increases. In Nursing, the number of credit hours turned around from a low last year. We are also getting credit for the increase in our minority student enrollments above Autumn Quarter 1986. So the efforts the University has made in continuing to increase our minority and black student enrollments has had a significant impact not only in the diversity on campus, but also in keeping us within the state mandated enrollment limit. Overall, black enrollments are up 6.2 percent for the year, and entering black first quarter freshmen are up 12.7 percent -- from 482 to 543.

I would be glad to try to respond to further questions you might have regarding the data on this report.

Mr. Teaford:

I have a couple of questions, Mr. Chairman. Sixty five hundred times four is only 26,000 students that we are apparently admitting as first quarter freshmen in the fall, and we have got 40,000 undergraduates?

Mr. Ihrig:

There are also, in addition to the admissions that we have in the Winter, Spring and Summer Quarters, students admitted at the regional campuses and they can move from campus to campus. In addition to that, we bring in and we plan for large numbers of transfer students from other institutions outside the University. For Autumn Quarter the transfers were targeted at around 2,100. So, those activities go on all four quarters of the year.

Mr. Teaford:

Do we have a sense of how many first quarter freshmen there are in the other three quarters?

Mr. Ihrig:

I think Jim Mager can answer that for you.

**ENROLLMENT REPORT - AUTUMN QUARTER 1989 (contd)**

Mr. Mager:

Yes, the Winter Quarter will bring in about 700 new freshmen, the Spring Quarter will have between 200 to 300, and for Summer Quarter it has been between 300 to 400 freshmen.

Mr. Teaford:

One other thing that has been suggested to me as to why there are less part-time and more full-time graduate students, is that the fear of tuition increases has now caused people to say they want to get out of here faster.

President Jennings:

I hope it is not for fear, but I would hope graduate students would want to get out of here faster. Because one of the major problems in graduate education is and has been graduate students taking way too long to graduate, particularly at the Ph.D. level. I think the faculty should do everything they can to encourage graduate students to finish more rapidly than they have in the past.

Mrs. Bowser:

I don't understand the drop in Continuing Education?

Mr. Ihrig:

We don't fully understand that yet, Mrs. Bowser. I think that is a concern that we have. People in the Provost's office, Student Affairs' Office, and my office are looking at that and trying to understand it. I am concerned about it for the future.

President Jennings:

Up to this point, we have been ahead of the national trends when it comes to graduate education. Nationally it has been going down and we haven't. This is our first look at it. Getting the graduate students out faster would be appropriate. I might add that some of the state-wide restrictions on our graduate programs hurt us -- the limits of 200 hours where a subsidy will be paid is an artificially low limit associated with the Board of Regents and the state. We are working to correct that, as well.

I think the key though is that when we say we are down, remember that in terms of institutional policy, we are only down or up in any one period because of reversals that we didn't pick up, like the Continuing Education or like the graduate program or like the unpredictability of the yield of selective admissions. The basic institutional policy right now is to stay the same size.

(See Appendix XXII for Highlights of Fourteenth Day Enrollment for the Autumn Quarter 1989, page 425.)

At the outset of the Board meeting, Dr. William J. Studer, Director of University Libraries, gave an overhead presentation on The Ohio State University Libraries. (See Appendix XXIII for overhead presentation, page 447.)

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### HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Executive Committee of the Hospitals Board met on Thursday, October 26. We received reports from the medical staff, and reviewed and endorsed the recommendations for medical staff appointments.

Mr. Allen presented a summary of patient activity and the Hospitals' financial performance during the month of September. The number of admissions in the first quarter of this fiscal year exceeded both last year's actual and this year's budget. That is the good news. We believe that increasing admissions will be the key to the Hospitals' success in the future. We hope to accomplish this through continued efforts to cultivate physician referrals and to provide staffing and services high in patient satisfaction. I say that is the good news because, indeed, the revenues in the period were below budget, principally because of shorter patients stays. There also seems to be problems now in getting enough medical admissions. In the past, budgets we have been short in surgical admissions, now it is medical.

In response to our request, Mr. Fraley discussed most-favorable and least-favorable scenarios related to the Hospitals' 1989-90 Capital Budget and Five-Year Capital Plan. I would describe these to be, at best, bare bones, and the five-year capital plan is equally short. Although the Hospitals' ongoing commitments, long-term and operational priorities will remain constant, we explored alternative methods of funding in the event that actual revenues either exceed or fall short of expectations. Some of the factors that will impact on our financial position will be federal budget cuts -- one of which may be retroactive to 1985! In other words, they are going to take away money they have given us for the last four or five years. Other factors include state funding, success of our development efforts, and the ability of the Cancer Institute to repay research equipment expenses. Something which I am not at all optimistic about, personally. Although, I point out I am less optimistic than the Hospitals staff. It seems probable to me that it will be difficult for us to succeed in all of those areas, and, therefore, we looked at the possibility of the Hospitals' borrowing. The good news there is that our Hospitals have perhaps one of the lowest debts of any major hospital in the United States. By contrast the place up north has a debt probably 10 times ours.

Mrs. Bowser:

They have a new building.

Mr. Teaford:

They have all new buildings. Mr. Fraley reported on current Hospitals Administration projects. Lastly, we received updates on the MedOhio facilities and on medical center development. We will review in-depth information on the Med-Ohio operations at our next meeting on December 7, because they are not up to the budget predictions that we made for this year.



## INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as of October 20, 1989, as presented by Mr. Nichols. The value of the endowment was reported as \$303.3 million.

Yesterday members of the Investments Committee plus other interested Trustees met to hear reports from our fixed income managers. Based on these, along with last month's equity managers review, the Investments Committee will bring forward recommendations for adjustments in the Endowment investment managers at our December meeting.

That concludes my report, Mr. Chairman.

Mr. Berry:

Any questions?

Mr. Teaford:

I think it is true, isn't it Mr. Chairman, that I have sat on this Board when we have hit the \$100, \$200, and now \$300 million level.

Mr. Berry:

That is true, Mr. Teaford. I started on this Board when we were at \$70 million and Dr. Jennings joined us then, and we have it up over \$303 million, Ed. Joel, you will hit the half-billion dollar mark.

Mr. Kessler:

Mr. Nichols is predicting, and he says the President agrees with him, that in ten years, by the year 2000, we will be at \$1 billion.

Mr. Berry:

Of course, you always have to watch these people that deal with figures!

(See Appendix XXIV for complete text of The Ohio State University Endowment Summary, October 20, 1989, page 469.)

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## ACADEMIC AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning we heard from Dr. Hermann, from the Office of International Affairs. We currently have 2,800 international students here at Ohio State University. We have 500 undergraduates and we are the fourth largest college in the United States for international students. We have a Study Abroad Program that right now is just being implemented. He made a comparison that we allocate the same amount of money and have the same amount of students as Kenyon College, which is not very

**ACADEMIC AFFAIRS COMMITTEE (contd)**

Ms. Casto: (contd)

good. So we hope to increase that program, hopefully, with some kind of exchange program where we would have foreign students come here and we in turn go the foreign countries. Of course, the emphasis was upon the fact that we are now in such a world market that it is important for us to have that knowledge at Ohio State University.

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**DEGREES AND CERTIFICATES - AUTUMN QUARTER COMMENCEMENT**

Resolution No. 90-42

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Autumn Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on December 8, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**PERSONNEL ACTIONS**

Resolution No. 90-43

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the October 6, 1989 meeting of the Board, including the following Appointments, Appointment of Chairpersons of Departments and Director of School, Leaves of Absence Without Salary, Leave Without Salary--Continuation, and Emeritus Title, as detailed in the University Budget be approved, and the Medical Staff Appointments and Reappointments approved September 28, 1989, by the Hospitals Board be ratified.

## PERSONNEL ACTIONS (contd)

### Appointments

Name: LASZLO ADLER  
Title: Professor (Taine G. McDougal Professorship in Engineering)  
College: Engineering  
Effective: October 1, 1989  
Salary: \$78,320.00  
Present Position: Professor, Department of Welding Engineering

Name: DAVID T. MUCCI  
Title: Director of the Ohio Unions  
Office: Student Affairs  
Effective: November 1, 1989  
Salary: \$48,000.00  
Present Position: Acting Director of the Ohio Unions

### Appointment of Chairpersons of Departments and Director of School

October 1, 1989 through September 30, 1990

Food Science and Technology  
School of Public Policy and Management

Michael E. Mangino\*  
Henry L. Hunker\*

January 1, 1990 through June 30, 1993

Preventive Medicine

Randall E. Harris

July 1, 1990 through June 30, 1994

Family Medicine

John A. Lombardo

\*Acting Chairperson/Director

### Leaves of Absence Without Salary

ANDREW D. BAILEY, Professor, Academic Faculty of Accounting and Management Information Systems, effective January 1, 1990, through September 30, 1990, to accept a faculty position in the Department of Accounting at the University of Arizona.

YAIR TAUMAN, Professor, Department of Economics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to accept a visiting professorship at Stony Brook.

MARTIN F. KENNEY, Assistant Professor, OARDC and Department of Agricultural Economics and Rural Sociology, effective October 1, 1989, through June 30, 1990, to accept a position in the Department of Applied Behavioral Sciences at the University of California-Davis, Davis, CA.

### Leave of Absence Without Salary--Continuation

BRUCE S. GROWICK, Associate Professor, Department of Educational Services and Research, effective Winter Quarter and Spring Quarter 1990, to continue as Director of the Rehabilitation Division of the Industrial Commission of Ohio.

**PERSONNEL ACTIONS (contd)**

Emeritus Title

JAMES B. RANDELS, Department of Computer and Information Science, with the title Associate Professor Emeritus, effective November 1, 1989.

Medical Staff--Appointments

CYNTHIA W. BRONER, M.D., Attending Staff, Pediatrics

MICHAEL E. MINER, M.D., Attending Staff, Division of Neurosurgery

MARIA NINI PLURAD, M.D., Limited Staff, Anesthesiology

ELLEN M. ROSENBERG, M.D., Attending Staff, Pediatrics

ROBERT SANTIAGO, M.D., Attending Staff, Preventive Medicine

WILEY G. WOODARD, M.D., Courtesy Staff, Obstetrics and Gynecology

Medical Staff--Reappointments

CHRISTOPHER L. DEMAS, M.D., transfer from Limited to Attending Staff, Family Medicine

JANE F. DONAT, M.D., Attending Staff, Pediatrics

TIMOTHY J. FALLON, M.D., Courtesy Staff, Physical Medicine and Rehabilitation

RODERICK L. FULLER, D.P.M., Courtesy Staff, Division of Orthopedic Surgery

WILLIAM B. KELLY, M.D., Limited Staff, transfer to Anesthesiology

MARY K. KUZMA, M.D., transfer from Limited to Courtesy Staff, Pediatrics

ROBERT E. LAUER, D.D.S., Attending Staff, Division of Oral and Maxillofacial Surgery

JUDITH R. LUBBERS, M.D., transfer from Limited to Courtesy Staff, Family Medicine

MARGARET M. OLSOY, M.D., transfer from Limited to Courtesy Staff, Pediatrics

MICHAEL C. OVERDAHL, M.D., transfer from Limited to Attending Staff, Division of General Medicine

DANA J. SCHULTZ, M.D., Courtesy Staff, Pediatrics

KIRK V. SHEPARD, M.D., Courtesy Staff, Division of General Medicine

RICHARD C. STEWART, D.P.M., Courtesy Staff, Division of Orthopedic Surgery

RENEE S. TAYLOR, M.D., Courtesy Staff, Pediatrics

JOHN N. TETERIS, M.D., Limited Staff, Obstetrics and Gynecology

MARK D. WEWERS, M.D., Attending Staff, Division of Pulmonary Medicine

## PERSONNEL ACTIONS (contd)

### Medical Staff--Reappointments (contd)

JOHN J. WHELLER, M.D., Attending Staff, Pediatrics

THOMAS E. WILLIAMS, M.D., Courtesy Staff, Division of Thoracic and Cardiovascular Surgery

JOSEPH P. YU, M.D., Limited Staff, Radiology

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## RESOLUTIONS IN MEMORIAM

Resolution No. 90-44

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Richard S. Jaeckle

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on August 25, 1989, of Richard S. Jaeckle, Assistant Professor of Psychiatry.

Professor Jaeckle was born November 24, 1953, in Madison, Wisconsin. He received his B.S. degree (with honors) in physiological psychology and biochemistry from the University of Wisconsin in 1978, and his M.D. degree from Vanderbilt Medical School in 1982. Professor Jaeckle served his internship at the University of Michigan and received his psychiatric residency training at the University of Iowa, where he also did a fellowship in Neuroendocrine Molecular Genetics (1985-87).

Dr. Jaeckle was appointed Assistant Professor of Psychiatry at the University of Wisconsin from 1987-1988 before he was recruited to The Ohio State University in the summer of 1988. He served as director of the psychoneuroendocrinology program in the Department of Psychiatry at The Ohio State University, and taught medical students and psychiatric residents a variety of biological psychiatry and neuroscience topics. He also served as a consultant to the V.A. Outpatient Clinic in Columbus.

Dr. Jaeckle was a brilliant young scientist who was conducting research on some very important neural mechanisms in depressive disorders. He was principle investigator on a five-year NIMH grant titled "Peptide Regulation of the HPA Axis in Major Depression" and co-investigator on another NIMH grant "Corticotropin Releasing Hormone in Major Depression." He was extremely knowledgeable in the field of psychiatric neuroscience, and always had many new ideas for further research to discover the etiology and treatment of serious depression.

## RESOLUTIONS IN MEMORIAM (contd)

Richard S. Jaeckle (contd)

On behalf of the University Community, the Board of Trustees expresses to the family of Professor Jaeckle its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his friends and associates have sustained.

Geneva H. Nolan

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 17, 1989, of Geneva H. Nolan, Instructor Emeritus in the Cooperative Extension Service.

Mrs. Nolan was born September 1, 1905, in Walton, West Virginia. She received her B.S. in Home Economics Education from Ohio University in 1935; then spent three years teaching Vocational Home Economics in Morgan County.

Mrs. Nolan began her Extension experience when she joined the faculty at The Ohio State University in 1938 as a County Extension Agent, Home Economics in Meigs County. Mrs. Nolan continued in this position until her retirement in 1963.

The National Home Demonstration Agents Association presented Mrs. Nolan the Distinguished Service Award in October 1955 for outstanding work in the delivery of home economics programs. She was a member of the County Agents Association and attended many Extension conferences throughout her association with the Ohio Cooperative Extension Service.

Mrs. Nolan's contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her coworkers and many thousands of Ohio citizens throughout the length and breadth of Meigs County.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Mrs. Nolan. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Neal A. Smith

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on July 15, 1989, of Neal A. Smith, Professor Emeritus in the Department of Electrical Engineering.

Professor Smith was born on February 10, 1919, in Norwich, Ohio. He received his Bachelor of Electrical Engineering degree in 1941 and the Master of Science in 1947; both degrees were from The Ohio State University.

Prior to joining the faculty of The Ohio State University in 1947, Professor Smith was employed as Assistant Chief Engineer of the Federal Machine and Welder Company from 1941 to 1944, and served in the U.S. Navy from 1944 to 1946.

Professor Smith's career spanning 37 years of service to the Department of Electrical Engineering was characterized by many and varied contributions to the growth and success of the Department. A dedicated and inspirational teacher, he nearly single-handedly conducted its

## **RESOLUTIONS IN MEMORIAM (contd)**

Neal A. Smith (contd)

program of instruction in power systems engineering for a number of years. At a time when some programs of this type were dying throughout the country, Professor Smith maintained the power systems program as a strong and vital one and continued to develop and invigorate it. His judgement that instruction in power systems engineering should not be subjugated to new areas was proved totally correct by the later resurgence of such programs throughout the country. The Department of Electrical Engineering has had an outstanding tradition of excellent instruction in power systems engineering since the late 1880's, and Professor Smith was an extremely important part of the maintenance of that tradition for nearly four decades.

He conducted research, served as a consultant to industry, and provided service to the professional organizations relevant to electrical engineering. Through his contacts in industry, he successfully established the Ohio Electric Utility Institute Fellowship Program at Ohio State.

A registered professional engineer, he also served as a consultant and expert witness concerning electrical fires and safety, electrical shock, and high voltage system design and testing throughout his career.

Professor Smith was a life member of the Institute of Electrical and Electronics Engineers and its Power Engineering and General Applications Societies. He was also a member of the American Society of Engineering Education, and other professional, technical, and honorary organizations.

A very loyal supporter of the University, Professor Smith was a member of the President's Club and the President's Club Council.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## **STUDENT AFFAIRS COMMITTEE REPORT**

Mr. Shumate:

The Student Affairs Committee received an excellent report from the Academic Support Systems for Student Athletes. Highlights of the report -- the report was presented by Russ Spillman, Vice Provost for Student Affairs; Jim Jones, Athletic Director; Larry Romanoff, Lead Academic Counselor; and, also, Kate Riffie and John Macko of the Athletic Academic Counseling Office.

Ohio State University was the second institution in the country to hire an academic counselor. Our thrust and goal is truly on the area of receiving a degree and also in receiving an education here at the University. Our focus is not just on the number of hours that our student-athletes take each quarter, but it is also a focus upon the hours in degree granting programs which is another leading component of the excellent program that we have here.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Shumate: (contd)

I think we can be very proud that the requirements of our academic eligibility program are the most stringent in the country. Not just in the Big 10, but in the country we have the highest standards of academic eligibility for our student-athletes. It is truly a very positive program of academics here at The Ohio State University and one as Trustees, I think we should assist this office in telling the good news story. We all hear about the leadership that we take on the sports programs, on the football fields, and on the various courts, but we can also be proud of this program.

Two areas of concern, if you will, that were mentioned by Mr. Romanoff were: 1) more space is needed for the study table program; and 2) if more courses could be offered during summer school periods, a time when our student-athletes could take advantage of greater course loads. Are there any questions? If not we will move, Mr. Chairman, to the student leaders' reports.

Mr. Luke Evans:

Good afternoon. Mr. Chairman, President Jennings, and Members of the Board, first I will report briefly on a few of CGS's current programming activities, and then I would like to follow-up by discussing, in some depth, what seems to be a growing concern among graduate students, the image of graduate education and graduate students among many of Ohio State's administrators, the State Legislator, and Ohio's general public, and how this image can impact graduate education and the quality of life of its students.

As for activities, Benetta Lucius, our Vice President, has just issued the call for papers for the 1990 Graduate Research Forum. Now she is beginning to work on the recruitment of approximately 100 graduate faculty, both within and outside the Ohio State academic community, to function as judges for this event of growing prestige. Last year's applicants increased 25% over that of the previous year. We expect a similar increase this year, especially since we issued the call for papers two months earlier. Six thousand dollars will be awarded to 20 well-deserving Ohio State graduate students in recognition of their outstanding research. Each year, as a result of our participation in the National Association of Graduate/Professional Students, we receive inquiries from other graduate schools around the country who wish to use our event as a model for their competitions. This year's forum will take place Saturday, April 21, 1990.

Beginning December 1, graduate students at Ohio State will be able to search for grant opportunities from the awards data base maintained by Stanford University. This data base provides grant opportunities almost exclusively to graduate students, thus affording them additional opportunities to fund research that might not otherwise be available. As an aside, I learned that this data base also contains opportunities for research for undergraduate students. So, perhaps, maybe our honors' undergraduate students who are writing an undergraduate thesis may be able to take advantage of this as well. This service is a joint effort between CGS, the Office of Research and Graduate Studies, and Sponsored Programs Development. This new service is being very well received by graduate students as a positive step to enhance the quality of graduate education at Ohio State.



## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

Finally, as far as activities are concerned we are working with the Center for Teaching Excellence on the Autumn TA Forum entitled, "When the Spotlight's on You, Presenting Yourself in the Classroom." As with last year's forum, the central purpose is to enhance the quality of undergraduate instruction by TA's and to give TA's, the professors of tomorrow, opportunities to improve their teaching skills. This event will be held this Wednesday, November 8.

Now on to the image of graduate education in Ohio. Some of you may have been following a series of articles that have been appearing in the Lantern that concern the Jones Tower resident's displeasure with the 7.3 percent rent increase imposed last July 1. This displeasure is a combination of several events taking place over Winter, Spring, and Summer Quarters.

During the last academic year the residence received various memos to the effect announcing changes in services as a result of cost-containment measures. Much to their surprise, another memo in April announced the 7.3 percent rent increase for the coming academic year citing increased operating costs and inflation as the reasons. This prompted many graduate students to inquire further into this matter by obtaining copies of the proposed budget. They noticed that projected operating expenses including adjustments for inflation were slightly lower than that of the previous year. Which seemed to correspond with cost-containment efforts described in previous memos. But they also noticed a new line-item for University reallocation. The residents are arguing that the rent increase was not a result of increased operating costs and inflation, but rather a consequence of the University's cost-containment reallocation program. While they have no complaint about the cost-containment portion, they do object to paying monies for reallocation since these funds go outside Residence and Dining to other areas of the University. Their belief is that cost-containment benefits should remain within Residence and Dining and accrue to those who use R & D services -- student residents. Reallocation, they claim, constitutes a profit and accrues to the benefit of all University students. Accordingly, reallocation has the unintended effect of placing a disproportionate share of the University's burden to fund its higher priority needs on students living residence halls. If this argument has some merit, could this affect accessibility to graduate education? Accessibility to higher education is one of the guiding principles of land-grant institutions. Defining accessibility, it would seem, does not include tuition alone. It would also include room and board, health insurance, and so on. So, what role does graduate housing play in accessibility to graduate education?

New graduate students generally arrive on campus under special circumstances. An out-of-town single student, for example, usually arrives without any established social structure and full employment. This generally means that this student is not likely to be able to afford an apartment until he or she has had the opportunity to make friends for roommate purposes. We would expect single students from the local area to have an established social structure and thus some opportunity to find a roommate to share apartment rent. Married couples can usually move directly into apartments, with the possible exception of international couples who may desire married housing for safety reasons until they get to know the area better. Graduate housing is especially important to those coming from out of town so that they can get settled in the shortest amount of time and begin their academic work. So the local rental market is, for all practical purposes, not available to many, newly arriving

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Evans: (contd)

graduate students. They are somewhat vulnerable and dependent upon the availability and reasonable pricing of the University Graduate Housing until they become settled.

Most of the Jones Tower residents are cognizant that administrators in higher education nation-wide are under tremendous financial pressure. Universities brutally compete with each other to attract top faculty, often by offering them salaries far in excess of the inflation rate. Universities spend large sums of money to attract the best students to the campuses. So, when faced with the pressures from the public to keep tuition low and a State Legislature reluctant to increase taxes for education, together in a brutally competitive environment in higher education, one can certainly see the logic of a cost-containment reallocation program as an operative to provide this fiscal flexibility required to enhance the quality of this institution.

The Jones Tower situation, as an example, is indicative of a much larger problem and that is the poor support for higher education among the general public of Ohio. Primary and secondary education have the highest priority, followed by undergraduate education, with virtually none remaining for graduate education. Support for graduate students in the form of graduate associateships appears more to support undergraduate instruction, not graduate education. Evidence of this lack of support was revealed when the State Legislature placed a cap on undergraduate, but not graduate tuition. The fact of the matter is that all levels of education are important to Ohio.

More and more graduate education is necessary to assume leadership goals in society. And contrary to popular belief, those who attend graduate school are not all from the affluent classes. Over 60 percent of all Ph.D.'s from Ohio State come from families who are first-time college graduates, and this is from both sides of the family. This means that the majority of Ohio State's Ph.D.'s are from working and middle-class backgrounds which sounds to me like Ohio State is living up to its land-grant mission of providing access from many of the general population. It is important that the people of Ohio move from the 20th Century into the 21st Century in recognizing the importance of strong budgeted education to the State. Not to do so may mean that Ohio's brightest, who are likely to be from all class backgrounds, will go elsewhere for their graduate education and perhaps stay elsewhere once they have graduated.

Graduate education needs the support of the general public if this University is to grow in quality, increase the accessibility for all, especially women, minorities and single parents, and to provide sound leadership for Ohio today and in the future.

Mr. Shumate:

Thank you, Mr. Evans. Are there any questions?

Mr. Teaford:

I just want to ask one question. Is that accurate that there is a reallocation out of dormitories and in to --

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

President Jennings:

Reallocation has been going on now for several years, out of all of the units in the institution. They have been coming out of the various units of the institution. There is no question that there is a systematic reallocation from the auxiliary enterprises to the academic enterprises. This has been going on for several years. The dormitories are paying to support the academic enterprise of this institution, as I think it should. One of the interesting things we will discuss next month, are graduate student stipends. You will note, Luke, that part of the graduate student stipends increases will come from the reallocations of this institution, because the State doesn't support them. That is a fairly narrow view.

I might ask, Luke, how many graduate students also have applied for application to the Board of Trustees for this upcoming year?

Mr. Evans:

I do not have those numbers.

Ms. Davis:

If I might provide -- I would like to ask you to remain here at the front. I have several questions and comments that Sophia and I have put together. As we understand, there were 13 applicants total from the student body of 55,000 plus; 10 of which were undergraduate, 3 of which then would be either graduate or professional students.

Mr. Teaford:

After all of the noise about wanting Student Trustees, there is obviously no interest on this campus in Student Trustees at all, if that was all that applied.

Ms. Davis:

Needless to say, Sophia and I are concerned and I would just -- I will ask my questions and give my comments after Bart has reported.

Mr. Evans:

May I comment on that?

Ms. Davis:

Will you please.

Mr. Evans:

I don't think it is a lack of interest. I think it was a matter of timing, at least as far as graduate students were concerned. When we established the dates for the Board of Trustees process for this year, it was just after our monthly meeting on October 1. We have our next monthly meeting this Sunday. We were a little bit late in getting our Graduate Voice out, which will be out in the next couple days. We do not have the resources to notify 10,500 graduate students and we relied on the three display

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans: (contd)

ads that were placed in the Lantern advertising the position. I think that this is probably a pretty weak approach and --

Mr. Teaford:

I saw all three ads myself.

President Jennings:

I did, too.

Mr. Shumate:

Are there any other questions of Luke? The next report, Mr. Chairman, will be from Bart Deems who is the Vice President of the Undergraduate Student Government.

Mr. Deems:

Members of the Board, President Jennings, distinguished guests, this is the first time I have had the privilege to address this body. Mr. Straub is not here today, because he is at a meeting on public safety and he wanted you to know that. Before I get to the Student Trustee issue, I would like to start off by covering some things that have been going on in undergraduate student government.

Once a month we have a joint meeting where we try to get all the bodies of student government together from the cabinet, to the committee members, to the Assembly, to the Administrative Staff, and get everyone working together. As a whole, it seems that a few problems with student government in the past were that each body student government worked on its own and didn't really get together and utilize the resources of the other bodies. Last night we had a joint session and Laurel gave an opening address regarding Student Trustees and what she did on the Board and how it benefitted not only the school, but herself as well. And then David and I proceeded to try and get as many issues as possible from all the students present, so we can say that these issues are important to students on campus. These issues are coming directly from students and I would like to share those issues with you. They are not, by any means, in order of importance. It is kind of a general list and I think that certain things need to be expounded upon and I will try to do so when I can.

The first issue that was brought up concerned the violence on campus. I am sure that you all have heard about the rapes and so forth. The most recent one was on the Oval. Something we feel that could be immediately taken care of is lighting on the Oval. Paulette Fouts, who is our appointee to the Committee on Women and Minorities, came into the office one night after an Assembly meeting a couple of weeks ago and said, "Bart, do me a favor, I would like for you to come outside." A group of us walked out to the middle of the Oval, it was maybe 8, 9, 10:00 at night, something like that, reasonable study hours I would assume. I thought it was pitch black out there. It really took Paulette to point this out to me because I usually don't worry about walking around campus by myself. But I think the lighting on the Oval needs to be addressed. It certainly is not satisfactory.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Deems: (contd)

Along those same lines, since the last attack on the Oval, the telephone calls through the Crime Watch Organization have increased by over 400 percent. I don't know if you are all familiar with Crime Watch, but it is an escort service, basically, that tries to make sure that people who need to get home safely, do.

The next issue that was brought up was the student involvement in all University committees. Again, transportation in regards to campus safety. We thought maybe that although the University does an excellent job transporting students around, there are still certain areas, especially around the Oval late at night where people need to get home safely. Traffic and Parking is always an issue. The basic environment of the campus, trash and litter -- the undergraduate students realize that is a responsibility that we create and we are working on a means where we can hopefully alleviate some of that.

Teacher evaluations are still very important to us. Student financial aid -- I spoke to Professor Brown regarding student financial aid. He called me about student financial aid and wanted to know what was going on with that committee, because he had had several students that came up to him after their classes that weren't able to add the class because their student loans had not come in and so forth. I am sure that President Jennings realizes that there is a lot of work going on in this area, but it is not perfected yet and we need to do something about that.

Child Care on campus for those who are attending school as well as trying to raise a family; basketball tickets, a hot issue right now; racism, sexism, and homophobia; alcohol and drug abuse; and theft. Along the racism, sexism, and homophobia issues, the action committee has met twice so far and we are going to have a Winter Quarter conference that will hopefully address as many of those issues as possible. Pom-Pom Day is November 11. The Undergraduate Student Government proposes to pass out in excess of 90,000 pom-pom at the Iowa football game.

And getting back to Laurel's original comments, the Student Trustee applications have all been turned in now. The screening committee will submit a list of ten applicants to the nominating committee and then the nominating committee will submit a list to the Governor. That list to the Governor should be out sometime in mid-December or so.

That concludes my report. Are there any questions?

Mr. Shumate:

Any questions of Bart?

Ms. Davis:

If I may, I will begin. Sophia Paige, the other Student Trustee, and I spoke last night regarding the response rate to the Student Trustee application process. As I mentioned earlier, there were thirteen applicants in all. And, needless to say, Sophia and I are very concerned about that low response rate. My first question is how do you both feel about the low response and the number of applicants for the position of the Student Trustee?

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Evans:

When I heard we had thirteen applications I was quite concerned, because I think it is important that we present a quality slate to the Governor. I had first proposed an extension of the deadline so that we could perhaps do some more advertising, but the others were opposed to that. They didn't want people applying who were perhaps not sharp in meeting deadlines and who weren't really interested in the position. So, we agreed that if the thirteen were not of good quality that perhaps we would reopen the process and do another push to get good people. I agree with the value of deadlines, but not at the expense of quality.

Mr. Deems:

I would just like to say that first of all that I am shocked and appalled that there were so few. From a personal standpoint, I would be thrilled and I can't imagine that everybody else in this school would not be thrilled to be involved with the process of the University. Regarding the number that we had, it came as a shock to me. I understand that there were 52 applications last year. Is that correct? Which works out to an average of about 26 per position, because there were two persons running. This year we had about 10. I think that the Lantern was ineffective, the poster boards that were put up were ineffective. We need to go out and address the student organizations, the leaders of those student organizations, and basically do a much more comprehensive job of trying to choose those students. We need to take a much more active role. All I can say is that this decision was reached by the three presidents of the student organizations. We were faced with the choice of going ahead with the thirteen applications, or extending the deadline, which realistically I don't think is fair to the students who met the deadline. But then again I see the other side -- we need to accept and submit an adequate list to the Governor. In the future, I will try and emphasize to anybody involved in the student government that this needs to be hand-held and carried, instead of just saying you can be appointed to the Board of Trustees if you apply.

Ms. Davis:

What you both said leads into the next two questions that I have. Sophia and I discussed the possible solutions to this low response rate. One being extending the application period, but I personally don't feel that that is fair to the thirteen who applied on time. Do you think that a more vigorous promotional campaign would affect the response rate? I am not so sure that the three small Lantern ads were enough. I didn't see any poster boards myself. I think, it is a hot issue for the student body to find out about, and the Lantern should have covered it in an article about what the role of the Student Trustee is. Do you agree with me and Sophia that a more vigorous campaign would help?

Mr. Evans:

Yes. I think last year there were several feature articles on this.

Mr. Deems:

Also, from what I understand, last year was the first time for this, so there was extensive media coverage.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Davis:

We are concerned whether or not thirteen students is going to end up representing a diverse sample of the student population. We believe that the Student Trustee position needs to be representative of the student population. And we are concerned about whether thirteen is going to give us a representative sample.

Mr. Deems:

I see what you are saying. If you don't mind, I would like to use the example -- people say to Dave and I, "only 10 percent of the population voted you in office." We are not a complete representation of student government, and I realize that. If you had 50,000 applicants, whomever you pick is not going to represent all of the students. But, that is not the point I am trying to make. I think that, obviously, we would like to have more applicants, but this is what we have and the screening committee and the nominating committee will both try to pick the most qualified applicant.

Mr. Evans:

Well, I am kind of doubtful that thirteen would be representative of the various significant groups that exist on campus, especially the minority groups. I have not seen the applications yet.

Ms. Davis:

If I might summarize, there are couple of points that Sophia and I, basically, wanted to make -- one is that with several improvements, perhaps, to the promotional campaign need to be made. Lantern stories could be done, as I mentioned earlier; government bodies addressed; distribution of applications throughout the campus at residence halls, unions, colleges offices, areas of that nature, as opposed to just going to the student government office. Also the current students on the Board of Trustees could offer a program in conjunction with the student governments, saying "we are here, the deadline is in two or three weeks, if you have any questions come ask us, we will tell you what it means to be a Student Trustee."

Secondly, as I said earlier, we believe that the students on the Board need to be representative of the student population and it is virtually impossible to believe that thirteen applicants is going to be able to give us a representative sample. As a result, OSU and the student body in general potentially may not be served as well as it could be. We see the Student Trustees as the most important position for students on this campus and in this community. Because it is a guaranteed two-year term and not just a one-year term like your positions as president and vice president of your respective student governments, we believe that USG, IPC, and CGS need to be promoting and advocating this position more than any other program. The two-year term intensifies the importance of selectively choosing the student for the Board of Trustees here at Ohio State.

Mr. Teaford:

We got a very clear message from the thirteen people. It is a very clear message.

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

President Jennings:

Yes, it is a very clear message.

Mrs. Bowser:

For six years that is all the students talked about, that you wanted a trustee on the Board. That's all you talked about.

Ms. Casto:

This has been going on since I was an undergraduate.

Mrs. Bowser:

It is incredible!

Ms. Casto:

That was part of a sixties movement. That was a big deal, and look what happened. I can't believe --

Mr. Berry:

Well, we could go on for quite awhile on this subject. I don't think any one person, or one group is at fault, but I think we should certainly take note of the fact that this isn't a desirable situation and we should do something about it. We hope that we will improve in the future. Of course, I agree, that after your evaluation process, if you don't feel any of them are really the people you would like to recommend, then I think we should reevaluate what we should do to get other applicants this year. We don't just want to say here are the best two or three out of thirteen, if we don't really feel that any of them are qualified. Now maybe all of them are good people; they may all be very well qualified.

Mr. Shumate:

Are there any other questions? Thank you both for coming this morning. Thank you for your reports. That completes my report, Mr. Chairman.

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**AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mrs. Bowser:

My report will be very brief since we are running behind schedule. We met with Dr. Dan Garrison who is head of the Agricultural Technical Institute at Wooster. His enthusiasm is wonderful and he was very impressive. He discussed many of the good things going on at ATI -- some of them very non-traditional -- and it made me very proud to hear his report. That completes my report.



**AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)**

Mr. Berry:

It was a good report, I sat in on it.

(See Appendix XXV for complete report on The Agricultural Technical Institute, page 481.)

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**FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Kessler:

The Fiscal Affairs Committee met this morning and we heard a report on the 1989-90 Current Funds Budget - 1st Quarter Report.

(See Appendix XXVI for the charts on The Ohio State University 1989-90 Current Funds Budget, 1st Quarter Report, page 485.)

The Fiscal Affairs Committee is also recommending approval for the following resolutions:

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 45

Synopsis: The Fiscal Affairs Committee recommended the approval of the research contracts, grants, and gifts and the summary for September 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of September 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR SEPTEMBER 1989**

**Background**

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	113	\$10,738,286.63
Engineering Experiment Station	37	\$ 466,683.00
Total	150	\$11,204,969.63
The Ohio State University Development Fund		
Establishment of Named Funds		
The Eugene Thal Scholarship Fund (Financial assistance for students in the field of business administration)		\$ 378,778.00
The Dr. and Mrs. Victor L. Steffel Memorial Fund (Scholarships - first-year dental students)		\$ 120,000.00
The Dale E. and Lena K. Crossen Memorial Fund (Support the College of Agriculture)		\$ 75,000.00
Donald J. Borror Fund for Bioacoustical Studies (Aid bioacoustical research, teaching and service programs)		\$ 15,000.00
Harry H. and Margaret B. Postle Scholarship Fund (75% for Scholarships - College of Dentistry; and 25% - used by the College of Human Ecology)		\$ 15,000.00

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

**Report - September 1989**

**Federal Research Contracts/Grants**

**\$1,094,210.00** - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Stress: Impact on the Immune-Endocrine Axis and Health, Department of Microbiology and Immunology (M. R. Glaser), 1 September 1989 through 31 August 1990. (Project 767005 - Continuation)

**\$621,765.00** - Department of Health and Human Services, Bureau of Maternal and Child Health and Resources Development, Rockville, Maryland, Mental Retardation Training, Nisonger Center (V. L. Reynolds), 1 July 1989 through 30 June 1990. (Project 767710 - Continuation)

**\$618,253.00** - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Improvement of Savings and Credit Services by Rural Financial Institutions in Developing Countries, Department of Agricultural Economics and Rural Sociology (R. L. Meyer and C. E. Cuevas) and Department of Agricultural Economics and Rural Sociology and Department of Agricultural Economics and Rural Sociology - OARDC (D. W. Adams), 1 September 1989 through 30 April 1992. (Project 763301 - Continuation)

**\$550,000.00** - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, The Ohio Sea Grant Program, Center for Lake Erie Area Research (J. M. Reutter and M. Brainard), Department of Agricultural Economics and Rural Sociology (L. J. Hushak), Department of Zoology (D. W. Garton), Department of Civil Engineering (K. W. Bedford and M. R. McCord), School of Natural Resources (R. W. Fortner), Cooperative Extension State Operations (J. D. Rohrer), Department of Educational Studies: Humanities, Science, Technological, and Vocational (V. J. Mayer), and Department of Welding Engineering (S. Rokhlin), 1 September 1989 through 31 August 1990. (Project 767770 - Continuation)

**\$236,313.00** - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Personality, Psychological Stress, and Immunocompetence, Department of Microbiology and Immunology (M. R. Glaser and W. P. Lafuse), Department of Psychiatry (J. Kiecolt-Glaser), and Oral Biology (J. F. Sheridan), 1 September 1989 through 31 August 1990. (Project 764961 - Continuation)

**\$200,000.00** - Department of Health and Human Services, Office of Human Development Services, Administration on Developmental Disabilities, Kansas City, Missouri, UAF Administration and Operation, Nisonger Center (S. R. Schroeder), 1 July 1989 through 30 June 1990. (Project 763712 - Continuation)

**\$195,087.00** - Department of Energy, Idaho Falls, Idaho, Installation and Evaluation of a Nuclear Power Plant Operator Advisor Based on Artificial Intelligence Technology, Department of Mechanical Engineering (B. K. Hajek and D. W. Miller), 1 September 1989 through 30 September 1990. (Project 767097 - Continuation)

**\$151,350.00** - Department of Education, Washington, D.C., Fellowships for Competitiveness in Chemistry in the 21st Century, Department of Chemistry (C. W. Mathews), 1 January 1990 through 31 December 1990. (Project 767096 - Continuation)

**\$149,776.00** - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, General Simulation of Helicopters and Interface to Antenna Pattern Prediction

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

Codes, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman and R. G. Rojas), 1 October 1989 through 30 June 1990. (Project 767820 - New)

\$140,350.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., U.S. AID Program Support Grant for Fiscal Years 1986-1991, Office of International Programs in Agriculture (D. O. Hansen), 29 August 1989 through 31 August 1990. (Project 765750 - Continuation)

\$138,383.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Aromatic L-Amino Acid Decarboxylase Modulation, Department of Pharmacology (N. H. Neff) and Department of Pharmacology and Department of Psychiatry (M. H. Neff), 1 September 1989 through 31 August 1990. (Project 767815 - New)

\$131,815.00 - Department of Health and Human Services, National Institute of Neurological Disorders and Stroke, Bethesda, Maryland, Pathway Formation in the Developing Spinal Cord, Oral Biology (R. H. Nordlander), 1 July 1989 through 31 March 1990. (Project 767816 - New)

\$128,140.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Early Integration Training Project: Providing Training to Child Care Staff to Promote the Integration of Young Children with Disabilities, Education Administration and Department of Educational Services and Research (L. Magliocco), 1 September 1989 through 31 August 1990. (Project 767808 - New)

\$123,915.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Improved Systemic Delivery of Anti-AIDS Drug 2', 3'-Dideoxyinosine, Department of Surgery (M. G. Wientjes) and College of Pharmacy (J. L. Au), 1 September 1989 through 31 August 1990. (Project 767804 - New)

\$122,056.00 - Environmental Protection Agency, Washington, D.C., Bacterial Degradation Under Anaerobic Conditions of KPEG-Modified Polychlorinated Biphenyls, Department of Microbiology (J. A. Krzycki), 1 October 1989 through 30 September 1990. (Project 767833 - New)

\$118,110.00 - Department of Energy, Idaho Falls, Idaho, Development of an Empirical Model for a Steam Driven Emergency Core Cooling System for an Inherently Safe Reactor and a Dynamic Methodology for System Reliability Assessment, Department of Mechanical Engineering (R. N. Christensen and T. Aldemir), 1 September 1989 through 30 September 1990. (Project 767093 - Continuation)

\$113,181.00 - National Science Foundation, Washington, D.C., Holocene Paleoclimatic Reconstruction from Greenland Ice Cores, Byrd Polar Research Center (E. Mosley-Thompson and L. G. Thompson), 1 August 1989 through 31 January 1991. (Project 765661 - Continuation)

\$105,334.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Structural Functional Studies of Neutrophil Activation, Department of Anatomy (J. M. Robinson), 1 August 1989 through 31 July 1990. (Project 766929 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$102,532.00 - National Science Foundation, Washington, D.C., A Cooperative Climatological-Glaciological Program in the Antarctic Peninsula -- Phase I, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 September 1989 through 28 February 1991. (Project 767075 - Continuation)

\$101,639.00 - Department of Health and Human Services, National Institute on Deafness and Other Communication Disorders, Bethesda, Maryland, Gustatory Afferent Organization in the Solitary Nucleus, Oral Biology (S. P. Travers), 1 September 1989 through 31 August 1990. (Project 765694 - Continuation)

\$100,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, The Evaluation of Coatings and Lubricants for Increased Service Lives of Die Casting Dies, Department of Industrial and Systems Engineering (R. Shivpuri) and Engineering Experiment Station (T. Altan), 30 September 1989 through 29 September 1991. (Project 767083 - Continuation)

\$100,000.00 - National Science Foundation, Washington, D.C., Engineering Research Center for Net Shape Manufacturing, Engineering Experiment Station (T. Altan), 15 September 1989 through 14 September 1990. (Project 767477 - Continuation)

\$99,827.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Image Representation of Target Scattering Properties and Target Signature Modeling, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and R. J. Marhefka), 1 September 1989 through 31 August 1990. (Project 767063 - Continuation)

\$90,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Molecular Biology of Mating Type and Pathogenicity in the Smut Fungus Microbotryum violaceum, Biotechnology Program and Department of Plant Pathology (R. C. Garber), 15 August 1989 through 31 August 1991. (Project 767810 - New)

\$89,752.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Scatterer Modeling/Calibration Study (Big Ear Measurement Supplement), ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka and J. D. Young), 1 September 1989 through 30 September 1989. (Project 766957 - Continuation)

\$88,124.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Retention-Based Counseling Program, Agricultural Technical Institute - Administrative Support (D. D. Garrison), 1 September 1989 through 31 August 1990. (Project 767032 - Continuation)

\$78,000.00 - National Science Foundation, Washington, D.C., Study of Gas-Liquid-Solid Fluidization, Department of Chemical Engineering (L. S. Fan), 1 September 1989 through 31 August 1990. (Project 767794 - New)

\$78,219.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, The Optimal Corneal Shape, College of Optometry (L. G. Carney), 30 September 1989 through 29 September 1990. (Project 766416 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$74,967.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Colorant Formulation of Polymeric Prosthetic Materials, Restorative and Prosthetic Dentistry (W. M. Johnston), 1 July 1989 through 30 June 1990. (Project 766900 - Continuation)

\$74,769.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Analysis of Airborne Antenna Patterns, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman and W. D. Burnside), 1 September 1989 through 31 August 1990. (Project 761012 - Continuation)

\$74,563.00 - National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., The Protestant Imagination: From Tyndale to Milton, Department of English (J. N. King), 1 October 1989 through 30 September 1990. (Project 767823 - New)

\$74,083.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Human Erythroid-Potentiating Activity, Department of Internal Medicine (B. R. Avalos), 1 August 1989 through 31 July 1990. (Project 766427 - Continuation)

\$72,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Dynamical Properties of Josephson Junctions Arrays, Department of Physics (C. A. Ebner and C. Jayaprakash), 15 September 1989 through 14 September 1991. (Project 767834 - New)

\$68,922.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Oncology Training Grant, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 761160 - Continuation)

\$65,248.00 - National Science Foundation, Washington, D.C., Distributed Scheduling for Networks of Workstations, Department of Computer and Information Science (P. Krueger), 1 October 1989 through 30 September 1991. (Project 767796 - New)

\$58,537.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen, and M. J. Tarr), 16 December 1985 through 15 December 1990. (Project 765188 - Continuation)

\$58,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 1 January 1989 through 31 December 1989. (Project 762116 - Continuation)

\$52,279.00 - National Foundation on the Arts and Humanities, National Endowment for the Humanities, Washington, D.C., The Great Theorems of Mathematics in Historical Context, Department of Mathematics (J. C. Ferrar and W. W. Dunham), 1 October 1989 through 30 September 1990. (Project 767799 - New)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$51,174.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Integrating an Organized Approach to Funding Information with an Online Library Catalog and Remotely-Searchable Bibliographic Data-bases, University Libraries (V. M. Tiefel), 1 November 1989 through 31 October 1990. (Project 766415 - Continuation)

\$50,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Detection of Ehrlichia risticii Antigen by Capture Enzyme Immunoassay, Department of Veterinary Pathobiology (Y. Rikihisa), 15 September 1989 through 30 September 1990. (Project 767821 - New)

\$50,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Self-Incompatibility in Petunia: Regulation of S-Locus Gene Expression, Department of Molecular Genetics (T. L. Sims), 1 September 1989 through 31 August 1990. (Project 767790 - New)

\$50,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Inter-national Conference: Informal Financial Markets for Low-Income Countries, Department of Agricultural Economics and Rural Sociology (D. W. Adams), 31 August 1989 through 20 February 1990. (Project 767830 - New)

\$50,000.00 - National Science Foundation, Washington, D.C., Speech Recognition Using Layered Abduction and Multiple Knowledge Types, Department of Computer and Information Science (J. R. Josephson, T. A. Patten, and B. Chandrasekaran), Department of Linguistics (M. E. Beckman), Department of Electrical Engineering (A. Krishnamurthy), and Division of Speech and Hearing Science (R. A. Fox and L. L. Feth), 15 August 1989 through 31 August 1990. (Project 767601 - New)

\$49,972.00 - National Science Foundation, Washington, D.C., Sterilization and Sealing of Aseptic Food Packages, Department of Welding Engineering (D. Dickinson and A. Benator), 1 September 1989 through 31 August 1991. (Project 767813 - New)

\$45,000.00 - Department of the Army, Army Materiel Command, Aberdeen Proving Ground, Maryland, Unsteady Fluid Motion in Liquid-Filled Containers, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 15 July 1989 through 30 October 1989. (Project 767692 - New)

\$44,781.00 - Department of Energy, Argonne, Illinois, Theoretical Studies of Dynamics and Correlations in Heavy Electron Materials, Department of Physics (D. L. Cox), 15 August 1989 through 14 August 1990. (Project 766287 - Continuation)

\$43,103.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, A Centralized Database for Thermodynamic Data on Lipid Mesomorphic Phase Transitions and Miscibility, Department of Chemistry (M. Caffrey), 1 September 1989 through 31 August 1990. (Project 767047 - Continuation)

\$40,000.00 - Department of Agriculture, Science and Education, Washington, D.C., A Possible Mechanism for the Regulation of Gas Diffusion in Legume Nodules, Department of Agronomy - OARDC (J. G. Streeter), 1 September 1989 through 31 August 1990. (Project 767814 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$40,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, High Strain Rate Characterization of Ceramics in Shear, Department of Engineering Mechanics (A. Gilat), 14 June 1989 through 14 June 1990. (Project 767094 - Continuation)

\$40,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, A Numerical and Experimental Investigation of an Innovative and Efficient Energy Release/Storage System, Department of Mechanical Engineering (K. Vafai), 22 September 1989 through 30 September 1989. (Project 767829 - New)

\$38,121.00 - Department of the Army, Army Corps of Engineers, Hanover, New Hampshire, Integrating Tactical Terrain Data with Remote Sensing for U.S. Army Corps of Engineers Applications, Department of Civil Engineering (C. J. Merry), 1 September 1989 through 31 August 1990. (Project 767786 - New)

\$37,906.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Laser Diagnostics of RF Hydrogen PLASMA Reactors: Application to the Processing of III-V Materials, Department of Chemistry (T. A. Miller), 1 July 1989 through 30 June 1992. (Project 767838 - New)

\$35,000.00 - Department of Energy, Idaho Falls, Idaho, Energy Reactor Sharing Program, Engineering Experiment Station (R. D. Myser), 1 September 1989 through 31 August 1990. (Project 762411 - Continuation)

\$30,888.00 - Department of the Interior, National Park Service, Washington, D.C., A Descriptive Analysis of the National Park Service Data in the Public Area Recreation Visitor Survey (PARVS) for Improving Interpretation and Visitor Services, School of Natural Resources and Department of Natural Resources - OARDC (G. W. Mullins), 14 September 1989 through 30 September 1990. (Project 767793 - Continuation)

\$25,431.00 - Department of the Interior, National Park Service, Washington, D.C., Research, Development, Evaluation, and Production of a Biological Diversity Slide Presentation, School of Natural Resources and Department of Natural Resources - OARDC (G. W. Mullins), 14 September 1989 through 30 October 1990. (Project 767793 - New)

\$24,639.00 - Department of Health and Human Services, Office of Human Development Services, Administration for Children, Youth, and Families, Chicago, Illinois, Child Welfare Traineeship Program, College of Social Work (N. J. Rindfleisch), 1 July 1989 through 30 June 1990. (Project 767062 - Continuation)

\$20,992.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Collaborative Ocular Melanoma Study - Clinical Center, Department of Ophthalmology (F. H. Davidorf), 1 August 1989 through 31 July 1990. (Project 765050 - Continuation)

\$19,590.00 - National Science Foundation, Washington, D.C., Multi-Wavelength Analysis of M81 with Comparisons to Other Nearby Galaxies, Department of Physics (J. C. Garland and M. Kaufman), 15 September 1989 through 31 August 1992. (Project 767825 - New)



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$16,012.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Short-Term Training for Students in Health Professional Schools, Oral Biology (S. Rosen), 1 June 1989 through 31 May 1990. (Project 764680 - Continuation)

\$15,008.00 - Department of Agriculture, Science and Education, Washington, D.C., Mechanisms Regulating Nodulation Formation in Soybean, Department of Agronomy - OARDC and Department of Agronomy (W. D. Bauer), 15 September 1989 through 30 September 1990. (Project 767817 - Continuation)

\$13,580.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Intramolecular Electron Migration in Proteins and Polypeptides, Department of Chemistry (M. H. Klapper), 1 July 1989 through 30 June 1990. (Project 765529 - Continuation)

\$13,406.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Development of Cerebellar Circuits, Department of Anatomy (J. S. King), 1 September 1989 through 31 August 1990. (Project 760045 - Continuation)

\$12,500.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Processes of Change in Smoking Cessation, Department of Life Span Process (M. E. Wewers), 1 September 1989 through 31 August 1990. (Project 767831 - New)

\$12,000.00 - Department of Agriculture, Science and Education, Beltsville, Maryland, Genetic and Physiological Basis for Resistance of Elms to the Elm Leaf Beetle -- Phase I, Department of Entomology (R. W. Hall), 1 August 1989 through 1 August 1992. (Project 766343 - Continuation)

\$11,266.00 - Department of Defense, National Security Agency, Fort George G. Meade, Maryland, The Arithmetic of Function Fields, Department of Mathematics (D. M. Goss), 12 September 1989 through 11 September 1990. (Project 767717 - New)

\$9,999.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1989 through 31 August 1990. (Project 766355 - Continuation)

\$8,667.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Acquired Immunodeficiency Syndrome Clinical Study Group, Department of Internal Medicine (R. J. Fass), 1 September 1988 through 31 August 1989. (Project 766341 - Continuation)

\$8,224.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Computational Study of the Jet-in-the-Ground-Effect Flow with Dynamically Adaptive Grid, Department of Mechanical Engineering (S. Nakamura), 21 March 1989 through 20 March 1990. (Project 766675 - Continuation)

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$2,000.00 - Department of Health and Human Services, National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda, Maryland, Frontiers in Smooth Muscle Research: Emil Bozler Symposium, Department of Physiology (J. A. Rall), 1 May 1989 through 30 April 1990. (Project 767468 - Continuation)

\$2,000.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Determination of Residual Stress and Effects in Thick Section Weldments for Hydraulic Structures, Department of Welding Engineering (C. L. Tsai), 12 September 1989 through 11 December 1989. (Project 767229 - Continuation)

**TOTAL - FEDERAL AWARDS** **\$ 7,450,758.00**

#### **State of Ohio Research Contracts/Grants**

\$75,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, Mental Health Trainees: Practice with Persons Who Are Severely Mentally Ill, College of Social Work (M. Coleman), 1 July 1989 through 30 June 1990. (Project 767742 - New)

\$49,000.00 - State of Ohio, Department of Mental Health, Columbus, Ohio, ODMH Residency/Traineeship Program, Department of Family and Community Nursing (J. A. Clement), 1 July 1989 through 30 June 1990. (Project 767828 - New)

\$38,000.00 - State of Ohio, Department of Education, Columbus, Ohio, The Young Scholars Program, Academic Affairs Administration (J. J. Bishop), 9 July 1989 through 19 August 1989. (Project 767809 - New)

\$4,650.00 - State of Ohio, Department of Health, Columbus, Ohio, OSU High Risk Perinatal Project -- Care of the High Risk Mother and Infant, Department of Pediatrics (L. Cordero), 1 October 1988 through 30 September 1989. (Project 765042 - Continuation)

\$1,672.00 - State of Ohio, Department of Education, Columbus, Ohio, Labor Market Information Development, Center for Human Resource Research (H. R. Blaine) and Academic Faculty of Management and Human Resources (S. L. Mangum), 1 July 1989 through 30 June 1990. (Project 766869 - Continuation)

**TOTAL - STATE OF OHIO AWARDS** **\$ 168,322.00**

#### **Industrial Research Contracts/Grants**

\$137,452.64 - Rosemount, Inc., Burnsville, Minnesota, Advanced Radar Cross Section Measurements, ElectroScience Laboratory, Department of Electrical Engineering (J. D. Young), 18 August 1989 through 31 August 1990. (Project 767757 - Continuation)

\$110,911.00 - Resource International, Incorporated, Columbus, Ohio, Composite Material Tester -- Phase II, Department of Civil Engineering (S. Chaturvedi and R. L. Sierakowski), 1 August 1989 through 23 May 1990. (Project 767795 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd) .**

**Industrial Research Contracts/Grants (contd)**

\$52,194.00 - Sandoz, Inc., East Hanover, New Jersey, Testing of Sandostatin Action on Angiogenesis, Department of Pathology (R. E. Stephens), 1 May 1989 through 30 April 1990. (Project 767743 - New)

\$25,000.00 - Sears Manufacturing Company, Davenport, Iowa, Research and Development of Heavy-Duty Truck Seating System and Interior Paneling Concept, Department of Industrial Design (R. F. Butter and H. Goeller), 1 July 1989 through 30 June 1990. (Project 766920 - Continuation)

\$23,235.00 - Adria Laboratories, Dublin, Ohio, Test of the Absorption of Adria Magnesium Lactate Tablets, Department of Pharmacology (N. Gerber), 1 March 1989 through 28 February 1990. (Project 767547 - Continuation)

\$21,208.00 - Universal Energy Systems, Inc., Dayton, Ohio, USAF Graduate Fellowship, Department of Electrical Engineering (R. Moses), 1 September 1989 through 31 August 1990. (Project 767803 - New)

\$16,700.00 - Advanced Decision Systems, Mountain View, California, Sensor Algorithm Research, ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka), 1 August 1989 through 30 September 1989. (Project 766088 - Continuation)

\$10,485.00 - Applied R & D, Olmsted Falls, Ohio, Vertical Multi-Junction Photovoltaic Cell, Department of Electrical Engineering (G. J. Valco), 1 August 1989 through 31 December 1989. (Project 767802 - New)

\$7,856.00 - America-Mideast Educational and Training Services, Inc., Washington, D.C., International Short-Term In-Residence Program -- Cyprus-America Scholarship Program, Center on Education and Training for Employment (R. D. Ryan), 1 August 1989 through 31 August 1989. (Project 767714 - New)

\$7,547.40 - Ethicon, Inc., Somerville, New Jersey, An Open Label Extension of the Evaluation of 2% Ketanserin Ointment for the Treatment of Lower Extremity Diabetic Ulcers, Department of Internal Medicine (S. Cataland), 1 September 1989 through 1 September 1990. (Project 767776 - New)

\$3,200.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 28 August 1989 through 30 September 1989. (Project 766726 - Continuation)

\$2,193.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Non-Native Speakers of English in the Work Setting Through Individualized Tutorial, English as a Second Language Program (R. N. Kantor), 1 October 1988 through 30 September 1989. (Project 767206 - Continuation)

\$1,642.00 - CeramPhysics, Inc., Westerville, Ohio, Ceramic Honey-combs for Joule-Thompson Cryocooler, Department of Materials Science and Engineering (E. R. Kreidler), 1 March 1989 through 6 April 1989. (Project 767822 - New)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

Equipment - The Baker Company, Inc., Sanford, Maine, A Randomized Trial of Environmental Control for the Prevention of Filamentous Fungal Infections in Bone Marrow Transplant Recipients, Department of Internal Medicine (B. C. Fox), 1 August 1989 through 31 July 1989. (Project 767777 - New) (Approximate Dollar Value - \$8,080)

Personnel Services - Decision Images, Inc., Princeton, New Jersey, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 August 1989 through 31 July 1990. (Project 766219 - Continuation) (Approximate Dollar Value - \$25,000)

TOTAL - INDUSTRIAL AWARDS \$ 419,624.04

#### Other Non-Federal Research Contracts/Grants

\$1,668,500.00 - National Association of Regulatory Utility Commissioners, Washington, D.C., The Research and Assistance Plan and Budget for the National Regulatory Research Institute: The Business Plan for Program Year 1990, National Regulatory Research Institute (D. N. Jones), 1 September 1989 through 31 August 1990. (Project 763289 - Continuation)

\$304,371.00 - Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia, A Study to Prepare a Management Plan for the Improvement of Educational and Manpower Systems for the Federated States of Micronesia, Center on Education and Training for Employment (R. D. Ryan), 1 August 1989 through 30 December 1989. (Project 767715 New)

\$100,000.00 - American Cancer Society, Atlanta, Georgia, Differential Sexual Outcomes Following Treatment of In Situ Vulvar Cancer: Prevention of Sexual Functioning Morbidity, Department of Psychology (B. L. Andersen), 1 July 1989 through 30 June 1990. (Project 767617 - New)

\$100,000.00 - United States-Israel Binational Agricultural Research and Development Fund, Bet Dagan, Israel, Mechanisms of Interaction Between Verticillium dahliae and Root-Lesion Nematodes in the Potato Early Dying Syndrome, Department of Plant Pathology - OARDC (R. C. Rowe and R. M. Riedel), 1 October 1989 through 30 September 1992. (Project 767702 - New)

\$79,415.00 - Massachusetts Institute of Technology - Lincoln Laboratory, Lexington, Massachusetts, Electromagnetic Analysis of Thin Material and Conducting Wires, ElectroScience Laboratory, Department of Electrical Engineering (E. H. Newman), 1 June 1989 through 30 April 1990. (Project 767806 - New)

\$56,008.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 June 1989 through 30 September 1995. (Project 766536 - Continuation)

\$53,902.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effect of Smokeless Tobacco on the Postnatal Development of the Mouse and Rat, Oral Biology (R. B. Paulson), 1 January 1990 through 31 December 1990. (Project 767102 - New)

\$49,450.00 - The Juvenile Diabetes Foundation International, New York, New York, Effect of Diabetes on Messenger RNA Metabolism, Department of Physiological Chemistry (D. E. Schumm), 1 September 1989 through 31 August 1990. (Project 767801 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$34,114.00 - University of California, Livermore, California, Development and Use of Radioactive Ion Beam Facility, Department of Physics (R. N. Boyd), 1 September 1989 through 31 August 1990. (Project 767818 - New)

\$33,333.00 - Klingenstein Fund, New York, New York, Klingenstein Fellowship in Neuroscience, Oral Biology (W. E. Thomas), 1 July 1989 through 30 June 1990. (Project 766717 - Continuation)

\$32,890.00 - American Heart Association, Dallas, Texas, Endothelial Transport of Macromolecules: Structural Studies, Department of Anatomy (J. M. Robinson), 1 September 1989 through 30 August 1990. (Project 767081 - Continuation)

\$30,338.00 - The Petroleum Research Fund, Washington, D.C., Geologic Evolution of the Ordovician Sebree Trough, A Major Subsurface Feature in the North American Midcontinent Region, Department of Geology and Mineralogy (S. Bergstrom), 1 September 1989 through 31 August 1991. (Project 767805 - New)

\$30,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Genetic Characterization of Novel Elements in Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 September 1989 through 31 August 1990. (Project 767800 - New)

\$25,000.00 - Muscular Dystrophy Association, New York, New York, Characterization of the Mutant Gene of the Wobbler Mouse, Department of Neurology (J. R. Mendell and X. S. Jiang), 1 July 1989 through 30 June 1990. (Project 767616 - New)

\$20,194.00 - University of Georgia, Athens, Georgia, Effects of Resource Quality and Microarthropods on Forest Floor Nitrogen Dynamics, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards) and Department of Entomology (J. M. Blair), 1 September 1989 through 28 February 1991. (Project 767826 - New)

\$20,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Developmental Changes in Calcium Transients and Contractile Dynamics in Myocytes of Cardiomyopathic Rats, Department of Physiology (B. T. Stokes) and Department of Internal Medicine (D. L. Groden), 1 July 1989 through 30 June 1990. (Project 767807 - New)

\$13,800.00 - Muskingum County Board of Mental Retardation and Developmental Disabilities, Zanesville, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 September 1989 through 31 August 1990. (Project 767739 - Continuation)

\$13,193.00 - Bowling Green State University, Bowling Green, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Northwest Region, Department of Agricultural Education (R. K. Barrick), 1 July 1989 through 30 June 1990. (Project 767049 - Continuation)

\$10,994.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (R. K. Barrick), 1 July 1989 through 30 June 1990. (Project 767080 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$10,800.00 - Children's Hospital Research Foundation, Columbus, Ohio, Insulin Effects on Growth in Children with Cystic Fibrosis, Department of Internal Medicine (T. M. O'Dorisio), 28 February 1989 through 27 February 1990. (Project 767837 - New)

\$10,000.00 - National Geographic Society, Washington, D.C., Sound Recording and Behavioral Correlates of the Vocalizations of Paridae (Aves) from China, Department of Zoology (A. D. Thompson and S. L. Gaunt), 1 September 1989 through 30 April 1990. (Project 767798 - New)

\$2,780.59 - North Atlantic Treaty Organization, Brussels, Belgium, Coronary Artery Geometry and Disease Distribution in Man, Biomedical Engineering Center (M. H. Friedman), 1 July 1989 through 30 June 1990. (Project 767811 - New)

\$500.00 - American Chemical Society, Washington, D.C., Oncofetal Proteins as Tumor Markers, Department of Physiological Chemistry (T. E. Webb) and Medicine Administration (C. L. Yash), 11 July 1989 through 18 August 1989. (Project 767766 - New)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$ 2,699,582.59**

**ENGINEERING EXPERIMENT STATION**

**Industrial and Other Sponsored Research and Development**

\$135,442.00 from Lockheed Missiles & Space Co., Sunnyvale, California, for "Technical Assistance/Large Compact Range Project," under the direction of the department of Electrical Engineering for the period January 20, 1989 through January 20, 1990. (312496, Ext. 2)

\$123,867.00 from AITRC, Columbus, Ohio, for "A Proposal for a Computerized System to Support Scholarly Writing," under the direction of the department of Computer and Information Science for the period July 1, 1989 through June 30, 1990. (529818)

\$80,000.00 from various industry for membership in the Compact Radar Cross Section Measurement Ranges Research and Development Consortium under the direction of the department of Electrical Engineering. (312884)

\$48,176.00 from ASME Gear Research Institute, Naperville, Illinois, for "Contact Analysis of Worm Gears," under the direction of the department of Mechanical Engineering for the period September 1, 1989 through August 31, 1990. (529822)

\$25,000.00 from Edison Welding Institute, Columbus, Ohio, for "An Experimental Investigation of Substrate-to-Metal Sealings in Microelectronics," under the direction of the department of Mechanical Engineering for the period July 1, 1989 through June 30, 1990. (312516)

\$20,356.00 from 19 sponsors of 29 development projects under the direction of two research areas of the College.

\$18,900.00 additional funding from General Electric, Cincinnati, Ohio, for "Refurbish Old Belmouth," under the direction of the department of Aeronautical and Astronautical Engineering for the period December 1, 1986 through October 2, 1989. (312895, Ext. 1)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**ENGINEERING EXPERIMENT STATION (contd)**

**Industrial and Other Sponsored Research and Development (contd)**

\$10,000.00 from various industry for membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$4,942.00 from Ross Laboratories, Columbus, Ohio, for "Feeding Tube Electrode Optimization Study," under the direction of the Engineering Experiment Station -- Biomedical Engineering for the period October 1, 1989. (312485, Ext. 1)

**TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH** **\$ 466,683.00**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

**Establishment of Named Funds**

**The Eugene Thal Scholarship Fund**

The Eugene Thal Scholarship Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Eugene Thal (B.S.Bus.Adm. '35) of Dayton, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance for students in the field of business administration at The Ohio State University College of Business. Scholarship selection criteria and awarding decisions are at the discretion of the Dean of the College of Business or their representative in consultation with the University Committee on Student Financial Aid.

If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

**The Dr. and Mrs. Victor L. Steffel Memorial Fund**

The Dr. and Mrs. Victor L. Steffel Memorial Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with a gift to The Ohio State University Development Fund from the estate of Victor L. (D.D.S. '26) and Marie M. Steffel, of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Dr. and Mrs. Victor L. Steffel Memorial Fund (contd)**

The annual income shall be used to provide one or more annual scholarship(s) to first-year dental students. To be eligible, a student must have a grade point average in the upper ten percent of the entering class and have scored in the upper twenty percent on the dental admission test taken by the entering class. This scholarship(s) may be renewed annually, but the student must be in the upper twenty percent of his/her class to be considered. The College of Dentistry will review all applicants, and recipients will be chosen in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors, with preference given to students in the College of Medicine for scholarships under the same criteria.

##### **The Dale E. and Lena K. Crossen Memorial Fund**

The Dale E. and Lena K. Crossen Memorial Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Lena K. Crossen (B.S.H.E. '48) of Willard, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support the College of Agriculture of The Ohio State University with expenditures to be made at the discretion of the Vice President for Agricultural Administration and Executive Dean of the College of Agriculture.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

##### **Donald J. Borror Fund for Bioacoustical Studies**

The Donald J. Borror Fund for Bioacoustical Studies was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Donald J. Borror, Professor Emeritus of entomology.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**Donald J. Borror Fund for Bioacoustical Studies (contd)**

The annual income shall be used to aid bioacoustical research, teaching and service programs at the discretion of the director of the Borror Laboratory of Bioacoustics and with the approval of the Dean of the College of Biological Sciences.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer in order to carry out the desire of the donor.

**Harry H. and Margaret B. Postle Scholarship Fund**

The Harry H. and Margaret B. Postle Scholarship Fund was established November 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the Harry H. and Margaret B. Postle Student Loan Fund and with additional gifts from Harry H. Postle (D.D.S. '48) and Margaret B. Postle (B.S.H.E. '47) of Columbus, Ohio. Dr. Postle taught Restorative Dentistry in the College from 1948-1983 and is an Associate Professor Emeritus.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used in the following manner. Three-fourths (75%) shall be used for scholarships in the College of Dentistry. Preference shall be given to those students exhibiting financial need. However, awards may be made based on academic merit. The Dean of the College of Dentistry shall have responsibility for making awards and the option of selecting the method of award, in consultation with the University Committee on Student Financial Aid. The remaining one quarter (25%) shall be used by the College of Human Ecology at the discretion of the Dean of that college.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

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**Employment of Architects/engineers And  
Request for Construction Bids**

Background

Pressey Hall - Office of Career Development

This project will create space for the relocation of the Office of Career Development. This office will be relocated from Rightmire Hall in order to allow expansion space for the Biotechnology Center.

Funds for the project are available from University funds. Construction costs for the project are estimated at \$265,000.00 and the total estimated project cost is \$320,000.00.

(See Appendix XXVII for map, page 491.)

**EMPLOYMENT OF ARCHITECTS/ENGINEERS AND  
REQUEST CONSTRUCTION BIDS**

Resolution No. 90-46

**PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT**

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Pressey Hall - Office of Career Development project.

WHEREAS the Pressey Hall - Office of Career Development project will create space for the Office of Career Development's relocation from Rightmire Hall; and

WHEREAS the total estimated cost of the project is \$320,000, with the estimated construction cost being \$265,000, with funding provided from University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services be negotiated between the firms selected and the University; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established State of Ohio and University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Ratification of Request for Construction Bids and  
Acceptance of the Report of Award of Contracts and  
Establishment of Contingency Funds**

Background

Lima Regional Campus - Reed Hall Parking Lot Addition

Higher than anticipated enrollments for fall quarter coupled with the fact that the Lima Regional Campus is primarily a commuter campus necessitated additional parking space be made available prior to the start of Autumn Quarter. To expedite this project, plans and specifications were developed by the University Architect's Office and the Department of Physical Facilities, and the project was bid on August 31. The project was completed on September 19.

The total project cost is \$190,000.00; funding is provided from Lima Regional Campus funds.

The contract awarded is as follows:

General Contract	E. J. Meyer & Sons, Ottawa, Ohio
Amount:	\$155,833.00 *
Estimate:	\$198,231.50 *
Contingency Allowance:	\$ 19,508.58
Total Project Cost:	\$190,000.00 *

\* Recommended alternate included in these figures.

(See Appendix XXVIII for tabulations and map, page 493.)

**RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND  
ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 90-47

**LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION**

Synopsis: The Fiscal Affairs Committee recommended ratification of the request for construction bids and acceptance of the report of award of contracts for the Lima Regional Campus - Reed Hall Parking Lot Addition project.

WHEREAS the Lima Regional Campus had unanticipated high enrollments for Autumn Quarter; and

WHEREAS the Lima Regional Campus is primarily a commuter campus; and

WHEREAS insufficient parking space existed for Autumn Quarter; and

WHEREAS this project provides additional parking to meet the increased demand and was bid as an emergency so that it could be completed prior to the start of Autumn Quarter:

NOW THEREFORE

**RATIFICATION OF REQUEST FOR CONSTRUCTION BIDS AND  
ACCEPTANCE OF THE REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION (contd)**

BE IT RESOLVED, That the Board of Trustees hereby ratifies and approves action taken by the President and/or Vice President for Business and Administration to request construction bids and award contracts on the Lima Regional Campus - Reed Hall Parking Lot Addition project in accordance with established University procedures and hereby accepts the report of award of contracts for this project.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Report of Award of Contracts and  
Establishment of Contingency Funds**

Background

See Appendix XXIV for a complete tabulation of bids on all projects and locator maps , page 497.) Amounts shown with an \* include accepted alternates.)

Masonry Improvements - Botany and Zoology Building  
Masonry Improvements - Cockins Hall  
Starling Loving Hall Pathology Photo Studio and Microscopy Lab  
Piketon Agricultural Research and Extension Center  
Faculty Club Improvements

Masonry Improvements - Botany and Zoology Building

This project will renovate the damaged and deteriorated exterior masonry on the Botany and Zoology Building. The total project cost is \$209,500.00; funding is provided from State capital appropriations (House Bill 810, Basic Renovations). The estimated completion date is August 1990. The contract awarded is as follows:

General Contract:	H. K. Phillips, Columbus, Ohio
Amount:	\$189,675.00
Estimate:	\$194,400.00
Total Contracts:	\$189,675.00
Contingency Allowance:	\$ 18,825.00 (9.9% of construction cost)
Total Project Cost:	\$209,500.00

Masonry Improvements - Cockins Hall

This project will renovate the damaged and deteriorated exterior masonry on Cockins Hall. The total project cost is \$41,200.00; funding is provided from State capital appropriations (House Bill 810, Basic Renovations). The estimated completion date is August 1990.

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Masonry Improvements - Cockins Hall (contd)

The contract awarded is as follows:

General Contract:	Trisco Systems, Lima, Ohio
Amount:	\$36,582.00
Estimate:	\$48,000.00
Total Contracts:	\$36,582.00
Contingency Allowance:	\$ 3,618.00 (9.9% of construction cost)
Total Project Cost:	\$41,200.00

Starling Loving Hall - Pathology Photo Studio and Microscopy Lab

This project will remodel the east end of the ground floor portion of Starling Loving Hall's "M" wing and include extensive work in the basement and minor exterior work. The remodeled area will accommodate an electron microscope with associated support laboratory and office. In addition, the existing Pathology photo studio will be replaced with a new studio, darkrooms, and support facilities. The project also includes new lighting and a dedicated HVAC system. The total project cost is \$309,800.00; funding is provided from Health Services. The estimated completion date is June 1990.

General Contract:	Williamson Builders, Plain City, Ohio
Amount:	\$ 87,600.00
Estimate:	\$133,100.00
Plumbing Contract:	Miles McClellan Construction, Columbus, Ohio
Amount:	\$ 32,393.00
Estimate:	\$ 55,900.00
HVAC Contract:	Williamson Builders, Plain City, Ohio
Amount:	\$ 95,200.00 +
Estimate:	\$ 61,200.00

+The Plumbing and HVAC contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

**Background (contd)**

**Starling Loving Hall - Pathology Photo Studio and Microscopy Lab (contd)**

Electric Contract:	Advantage Electric, Columbus, Ohio
Amount:	\$ 53,200.00 +
Estimate:	\$ 48,500.00
Total All Contracts:	\$268,393.00
Contingency Allowance:	\$ 23,861.31 (8.6% of construction cost)
Total Project Cost:	\$309,800.00

+The Electric contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

**Piketon Agricultural Research and Extension Center**

This project will encompass the total development of a 160 acre farm located in Pike County, Ohio, approximately one mile south of Piketon on the southeast corner of the intersection of State Route 124 and Shyville Road (County Road 58). Included in this project will be agricultural land development and improvements, building site land development, development and extension of all utilities, planning and construction of new building structures, and renovation of existing structures. This new facility will support programs in agronomic alternative crops, horticulture and total water management, impact of industrial and agricultural practices on buried valley aquifer, establishment and operation of aquaculture, establishment and operation of wood processing, and expanded non-agricultural economic development. The total project cost is \$4,135,956.44; funding is provided from State capital appropriations (House Bill 870 and Senate Bill 386) and University funds. The estimated completion date is December 1990. Contracts awarded are as follows:

General Contract:	Sargents Construction, Waverly, Ohio
Amount:	\$2,133,400.00
Estimate:	\$2,205,400.00
Plumbing Contract:	A. J. Stockmeister, Inc., Jackson, Ohio
Amount:	\$ 295,694.00 +
Estimate:	\$ 172,200.00

+The Plumbing and HVAC contracts are in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Piketon Agricultural Research and Extension Center (contd)

HVAC Contract: General Heating and Air Conditioning, Flatwoods, Kentucky

Amount: \$ 357,280.00 +

Estimate: \$ 246,900.00

Electric Contract: Reco Electric, Gahanna, Ohio

Amount: \$ 199,900.00

Estimate: \$ 223,200.00

Total All Contracts: \$2,986,274.00

Contingency Allowance: \$ 149,313.70 (5% of construction cost)

Moveable Equipment: \$ 286,225.00

Land Acquisition: \$ 220,000.00

Total Project Cost: \$4,135,956.44

+The Plumbing and HVAC contracts are in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

Faculty Club Improvements

This project will provide for the renovation and improvement of selected areas in and around the Faculty Club, modification of interior space arrangements to comply with appropriate building code requirements, modification of existing trash handling facilities and loading dock arrangements to improve operations, and improvement of existing kitchen layout arrangements to provide more efficient operation. The total project cost is \$1,916,386.40; funding is provided from University funds. The estimated completion date is December 1990. Contracts awarded are as follows:

General Contract: Cody Ziegler, Summit Station, Ohio

Amount: \$ 653,700.00 \* +

Estimate: \$ 602,057.00 \*

+The General contract is in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Faculty Club Improvements (contd)

Plumbing Contract:	Radico, Inc., Columbus, Ohio
Amount:	\$ 256,900.00 *
Estimate:	\$ 280,000.00 *
HVAC Contract:	Radico, Inc., Columbus, Ohio
Amount:	\$ 408,200.00 *
Estimate:	\$ 435,000.00 *
Electric Contract:	Newco Electric, Columbus, Ohio
Amount:	\$ 220,400.00 *
Estimate:	\$ 218,480.00 *
Total All Contracts:	\$1,539,200.00 *
Contingency Allowance:	\$ 123,136.00 (8% of construction cost)
Total Project Cost:	\$1,916,386.40

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 90-48

MASONRY IMPROVEMENTS - BOTANY AND ZOOLOGY BUILDING  
MASONRY IMPROVEMENTS - COCKINS HALL  
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB  
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER  
FACULTY CLUB IMPROVEMENTS

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989 and July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects: Masonry Improvements - Botany and Zoology Building, Masonry Improvements - Cockins Hall, and Piketon Agricultural Research and Extension Center; and



**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**MASONRY IMPROVEMENTS - BOTANY AND ZOOLOGY BUILDING  
MASONRY IMPROVEMENTS - COCKINS HALL  
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB  
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER  
FACULTY CLUB IMPROVEMENTS (contd)**

WHEREAS resolutions adopted by the Board of Trustees on June 2, 1989 and February 6, 1987, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Starling Loving Hall - Pathology Photo Studio and Microscopy Lab and Faculty Club Improvements:

**NOW THEREFORE**

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for Masonry Improvements - Botany and Zoology Building, Masonry Improvements - Cockins Hall, Starling Loving Hall Pathology Photo Studio and Microscopy Lab, Piketon Agricultural Research and Extension Center, and Faculty Club Improvements projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Purchase of Real Property**

**Background**

1624-26 Highland Avenue  
Columbus, Ohio

**Location and Description**

The property consists of a two-story brick residence built in about 1910. The house, which is in good condition, contains approximately 3,225 net square feet; it is divided into four apartments. The property is located at 1624-26 Highland Avenue between Tenth and 11th Avenues; it is within the South Campus acquisition boundary of the University's Master Plan.

**Appraisal and Purchase Price**

An appraisal done by W.E. Swift and Company in October 1989, valued the property at \$110,000.00. A previous MAI appraisal by HER Appraisal Services in June 1989, valued the property at \$89,000.00. Since May of this year, when the University first received word that the property was for sale, the University has been negotiating with the former owner and more recently with the current owner, Brixton Development Corporation, located in Columbus. Based on those negotiations, the University now has a signed contract, subject to approval by the Board of Trustees, to purchase the property for \$92,500.00.

**Purchase of Real Property (contd)**

Background (contd)

1624-26 Highland Avenue  
Columbus, Ohio (contd)

Use of the Property

Title to the property will be taken in the name of the State of Ohio for the use of The Ohio State University. Because the property is located within the Master Plan boundary, acquisition is important in completing implementation of the University's plans for the south campus area. Purchase of this property will complete the University's acquisition of all property in the block bounded by 11th Avenue, Hunter Avenue, an alley, and Highland Avenue.

(See Appendix XXX for map, page 513.)

**PURCHASE OF REAL PROPERTY**

Resolution No. 90-49

1624-26 HIGHLAND AVENUE  
COLUMBUS, OHIO

Synopsis: The Fiscal Affairs Committee recommended the purchase of the improved real property located at 1624-26 Highland Avenue in Columbus, Ohio.

WHEREAS The Ohio State University has been presented with an opportunity to purchase the property located at 1624-26 Highland Avenue in Columbus, Ohio; and

WHEREAS this property has an average appraised value of \$99,500.00 and the owner, Brixton Development Corporation of Columbus, Ohio, has offered to sell the property to the University for \$92,500.00; and

WHEREAS this property is located within the South Campus acquisition boundary of the University's Master Plan and its acquisition will allow the University to consolidate its land holdings in that block; and

WHEREAS funds for the purchase will be provided from general University funds, including those resulting from previous sales of property outside the acquisition boundary:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the State of Ohio for the use of The Ohio State University, the improved real property located at 1624-26 Highland Avenue in Columbus, Ohio, at a price not to exceed \$92,500.00, upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University's receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Management of the J. Leonard Camera Center  
for Industrial and Vocational Rehabilitation**

Background

2050 Kenny Road, Columbus, Ohio

The Industrial Commission of Ohio leases (from the Bureau of Workers' Compensation) and operates the J. Leonard Camera Center at 2050 Kenny Road in Columbus, Ohio. The Center, constructed in 1985 at a cost of \$45 million, provides industrial and vocational rehabilitation services for industrially disabled workers. It is located across Kenny Road from the University's West Campus and adjacent to the Veterans Administration Outpatient Clinic, on land purchased from the University by the State of Ohio. The Center has been operating at only partial capacity, and in June 1988, the Industrial Commission issued a request for proposals for management and operation of the Center on the Commission's behalf. The University responded to this request and was selected for negotiation of a management agreement.

Under the draft agreement with the Industrial Commission, the University will provide for the management and operation of the Center's facilities and programs. The University will provide a management team consisting of an Administrator, a Medical Director, a Chief Financial Officer, a Director of Professional Services, and a Chief Information Officer. The University also will provide certain financial and information systems, including a computerized "budget management software system" and consultation and support from the Hospitals' financial and information management staffs.

In exchange for these management services and the management team, the University will receive reimbursement for the salaries and benefits for the management team, an additional 25% of that amount as a management support fee, and use of approximately 7,600 square feet of dedicated furnished Center space for the operation of University rehabilitation programs. The Hospitals also will have shared use of all of the Center's facilities (e.g., pharmacy, examining rooms, therapy areas, swimming pool, parking, gymnasium).

Management of the Camera Center will enable the University to provide the complete range of rehabilitation services as well as providing the space and facilities for additional University rehabilitation programs (such as sports medicine and cardiac rehabilitation). The initial term of the agreement is through June 1991, with a two-year renewal term.

The agreement was approved by the University Hospitals Board on September 28 and by the Industrial Commission on September 27. If approved by the Board of Trustees, the agreement will be presented to the State Controlling Board for final approval.

(See Appendix XXXI for Executive Summary on the J. Leonard Camera Center Management Contract and map, page 515.)

**MANAGEMENT OF THE J. LEONARD CAMERA CENTER  
FOR INDUSTRIAL AND VOCATIONAL REHABILITATION**

Resolution No. 90-50

Synopsis: The Fiscal Affairs Committee recommended authorization to enter into an agreement with the Industrial Commission of Ohio for the management of the J. Leonard Camera Center.

**MANAGEMENT OF THE J. LEONARD CAMERA CENTER  
FOR INDUSTRIAL AND VOCATIONAL REHABILITATION (contd)**

WHEREAS the Industrial Commission of Ohio operates the J. Leonard Camera Center at 2050 Kenny Road in Columbus, Ohio; and

WHEREAS the Industrial Commission desires to enter into an agreement with The Ohio State University for the University Hospitals to manage and operate the Center's facilities and programs; and

WHEREAS the University desires to manage and operate the Center to enable University Hospitals to provide the complete range of rehabilitation services available and secure space and facilities for additional University rehabilitation programs; and

WHEREAS the appropriate University offices have determined that University Hospitals' management and operation of the Center is in the best interest of the University, and such action has been recommended by the University Hospitals Board:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to enter into an agreement with the Industrial Commission of Ohio for University management and operation of the facilities and programs of the J. Leonard Camera Center upon such terms and conditions as are deemed to be in the best interest of the University.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**NON-MANDATORY TRANSFER FROM CURRENT FUNDS  
FISCAL YEAR 1988-1989**

Resolution No. 90-51

Synopsis: The Fiscal Affairs Committee recommended the transfers to Endowment Principal Funds, Loan Funds, Annuity and Life Income Funds, Unexpended Plant Funds, Renewal and Replacement Funds - Remodeling and Renovation, Renewal and Replacements Funds - Repair and Replacement, Retirement of Indebtedness Funds and Investment in Plant Funds.

WHEREAS non-mandatory transfers from current funds for the fiscal year 1988-89 have been made; and

WHEREAS this accounting procedure is in compliance with the auditor of State that all transfers made among fund groups be reported:

**NOW THEREFORE**

BE IT RESOLVED, That the transfers as detailed in the accompanying report be accepted and approved.

November 3, 1989 meeting, Board of Trustees

**NON-MANDATORY TRANSFER FROM CURRENT FUNDS  
FISCAL YEAR 1988-1989 (contd)**

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXII for charts, page 521.)

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Thereupon the Board adjourned to meet December 1, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

John W. Berry  
Chairman

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**APPENDIX XXII**

**HIGHLIGHTS OF FOURTEENTH DAY ENROLLMENT  
FOR THE AUTUMN QUARTER 1989**

**Presented to the Board of Trustees November 3, 1989  
(See page 374)**

**HIGHLIGHTS OF FOURTEENTH DAY ENROLLMENT  
FOR THE AUTUMN QUARTER 1989**

**THE OHIO STATE UNIVERSITY  
OFFICE OF THE UNIVERSITY REGISTRAR**

**October 16, 1989**



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**THE OHIO STATE UNIVERSITY  
OFFICE OF THE UNIVERSITY REGISTRAR**

**Highlights of Final Enrollment for the Autumn Quarter of 1989**

October 16, 1989

The Autumn Quarter began on September 20, 1989. The official census for the Autumn Quarter was conducted as of the close of processing on October 4, 1989, the fourteenth day after the first day of autumn quarter classes. The fourteenth day census is the basis for these highlights and the supporting data contained herein.

- Total University enrollment is 58,994 down 553 students from Autumn Quarter 1988 (see Table 1).
- Enrollment at all non-Columbus Campuses is up from Autumn Quarter 1988 (see Table 1).
- Most of the decline in undergraduate enrollment at Columbus is attributable to the smaller new first-quarter freshman class (see Table 2).
- Sizeable increases from Autumn Quarter 1988 were recorded in enrollment in Social and Behavioral Sciences, and Arts and Sciences, General (see Table 3).
- Sizeable declines from Autumn Quarter 1988 were recorded in enrollment in Journalism, Continuing Education, Engineering, Graduate School, and University College (see Table 3).
- When University College students are divided by curricular academic program, the number of students in Pre-Medicine and Arts and Sciences, General increased substantially over those enrolled Autumn Quarter 1988 (see Table 4).
- Total university part-time headcount and credits declined at the undergraduate, graduate, and postbaccalaureate professional levels compared to Autumn 1988 (see Table 5).
- At Columbus an increase of over 20% in enrollment from the rural counties of Hocking, Lawrence, Noble, and Paulding was recorded (Table 7).
- Large increases over Autumn Quarter 1988 were recorded in enrollment of students from People's Republic of China, and Japan. Over half of all international students come from the Republic of China, the Republic of Korea, the People's Republic of China, and India (see Table 10).
- Over one-half of all graduate students in Engineering are international students (see Table 11).

- Over one-third of all graduate students in Agriculture, Biological Science, and Mathematics and Physical Sciences are international students (see Table 11).
- Total university Black new first-quarter freshmen are up by 61 (see Table 13).
- Columbus Black new first-quarter freshmen are up by 39 (see Table 14).
- Total university Hispanic new first-quarter freshmen are up by 33 (see Table 13).
- Columbus Hispanic new first-quarter freshmen are up by 24 (see Table 14).
- Undergraduate, postbaccalaureate professional, and graduate enrollment all showed declines from among Ohio residents (see Table 15).

TOTAL ENROLLMENT BY CAMPUS AND SEX  
AUTUMN QUARTER 1989 VERSUS AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 1

CAMPUS	AU '88 Number	Number /Total	AU '89 Number	Number /Total	Change Number	Current /Past
Columbus						
Men	28,649	91.8%	27,926	91.2%	-723	-2.5%
Women	25,020	88.3%	24,969	88.0%	-51	-0.2%
Total	53,669	90.1%	52,895	89.7%	-774	-1.4%
Lima						
Men	497	1.6%	551	1.8%	54	10.9%
Women	779	2.7%	762	2.7%	-17	-2.2%
Total	1,276	2.1%	1,313	2.2%	37	2.9%
Mansfield						
Men	480	1.5%	504	1.6%	24	5.0%
Women	797	2.8%	832	2.9%	35	4.4%
Total	1,277	2.1%	1,336	2.3%	59	4.6%
Marion						
Men	442	1.4%	459	1.5%	17	3.8%
Women	695	2.5%	702	2.5%	7	1.0%
Total	1,137	1.9%	1,161	2.0%	24	2.1%
Newark						
Men	649	2.1%	661	2.2%	12	1.8%
Women	854	3.0%	921	3.2%	67	7.8%
Total	1,503	2.5%	1,582	2.7%	79	5.3%
Wooster						
Men	491	1.6%	511	1.7%	20	4.1%
Women	194	0.7%	196	0.7%	2	1.0%
Total	685	1.2%	707	1.2%	22	3.2%
TOTAL						
Men	31,208	52.4%	30,612	51.9%	-596	-1.9%
Women	28,339	47.6%	28,382	48.1%	43	0.2%
GRAND TOTAL	59,547		58,994		-553	-0.9%

ENROLLMENT BY SOURCE OF STUDENT  
AUTUMN QUARTER 1989 VERSUS AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 2

	NFQF	New Transfers	Contin- uing	Former	Total
<b>UNDERGRADUATE</b>					
Columbus					
AU '88	7,098	1,715	29,638	2,087	40,538
AU '89	6,148	1,757	30,179	2,038	40,122
Change	-950	42	541	-49	-416
% Change	-13.4%	2.4%	1.8%	-2.3%	-1.0%
Non-Columbus					
AU '88	1,624	631	2,847	486	5,588
AU '89	2,039	543	2,723	506	5,811
Change	415	-88	-124	20	223
% Change	25.6%	-13.9%	-4.4%	4.1%	4.0%
Total Undergraduate					
AU '88	8,722	2,346	32,485	2,573	46,126
AU '89	8,187	2,300	32,902	2,544	45,933
Change	-535	-46	417	-29	-193
% Change	-6.1%	-2.0%	1.3%	-1.1%	-0.4%
<b>POSTBACCALAUREATE PROFESSIONAL</b>					
	New to OSU	New from OSU	Contin- uing	Former	Total
Columbus					
AU '88	450	293	1,984	16	2,743
AU '89	461	254	1,978	15	2,708
Change	11	-39	-6	-1	-35
% Change	2.4%	-13.3%	-0.3%	-6.3%	-1.3%
<b>GRADUATE</b>					
	New to OSU	New from OSU	Contin- uing	Former	Total
Columbus					
AU '88	1,630	847	7,084	827	10,388
AU '89	1,673	744	6,972	676	10,065
Change	43	-103	-112	-151	-323
% Change	2.6%	-12.2%	-1.6%	-18.3%	-3.1%
Non-Columbus					
AU '88	24	59	117	90	290
AU '89	33	61	109	85	288
Change	9	2	-8	-5	-2
% Change	37.5%	3.4%	-6.8%	-5.6%	-0.7%
Total Graduate					
AU '88	1,654	906	7,201	917	10,678
AU '89	1,706	805	7,081	761	10,353
Change	52	-101	-120	-156	-325
% Change	3.1%	-11.1%	-1.7%	-17.0%	-3.0%

ENROLLMENT BY COLLEGE AND SCHOOL  
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 3

College School	AU '88	AU '89	Change	
			Number	Percent
Agriculture				
Agriculture	1,227	1,219	-8	-0.7%
Natural Resources	243	292	49	20.2%
Arts and Sciences				
Arts and Sciences, General*	1,509	1,813	304	20.1%
Arts and Sciences, Unknown**	71	107	36	50.7%
The Arts	714	719	5	0.7%
Biological Sciences	855	819	-36	-4.2%
Humanities	1,167	1,356	189	16.2%
Journalism	1,240	852	-388	-31.3%
Mathematical and				
Physical Sciences	598	591	-7	-1.2%
Social and				
Behavioral Sciences	2,747	3,138	391	14.2%
Business	3,298	3,207	-91	-2.8%
Continuing Education	2,157	1,876	-281	-13.0%
Dentistry				
Dentistry	447	440	-7	-1.6%
Dental Hygiene	84	95	11	13.1%
Education	1,579	1,507	-72	-4.6%
Engineering				
Engineering	4,179	3,956	-223	-5.3%
Architecture	529	495	-34	-6.4%
Graduate School	10,388	10,065	-323	-3.1%
Human Ecology	1,105	1,074	-31	-2.8%
Law	635	627	-8	-1.3%
Medicine				
Medicine	907	887	-20	-2.2%
Allied Medical Professions	589	595	6	1.0%
Nursing	504	499	-5	-1.0%
Optometry	234	231	-3	-1.3%
Pharmacy				
Doctor of Pharmacy	13	17	4	30.8%
Pharmacy	469	475	6	1.3%
Social Work	166	172	6	3.6%
University College	15,508	15,265	-243	-1.6%
Veterinary Medicine	507	506	-1	-0.2%
<b>TOTAL COLUMBUS ENROLLMENT</b>	<b>53,669</b>	<b>52,895</b>	<b>-774</b>	<b>-1.4%</b>

\*International Studies, etc.

\*\*Declared major not offered in Arts and Sciences

ENROLLMENT BY CURRICULUM, COLUMBUS CAMPUS  
AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 4

Curriculum	University College (UVC) Enrollment by Curricular Academic Program (CAP)		Degree-Granting Program Enrollment		Combined Curriculum Enrollment		Change	
	AU '88	AU '89	AU '88	AU '89	AU '88	AU '89	Number	Percent
<b>UNDERGRADUATE</b>								
Agriculture								
Agriculture	72	39	1,227	1,219	1,299	1,258	-41	-3.2
Natural Resources	80	111	243	292	323	403	80	24.8
Arts and Sciences								
Arts and Sciences, General	1,223	2,183	1,509	1,813	2,732	3,996	1,264	46.3
Arts and Sciences, Unknown	0	0	71	107	71	107	36	50.7
The Arts	465	419	714	719	1,179	1,138	-41	-3.5
Biological Sciences	186	27	855	819	1,041	846	-195	-18.7
Humanities	85	11	1,167	1,356	1,252	1,367	115	9.2
Journalism	113	32	1,240	852	1,353	884	-469	-34.7
Mathematical and Physical Sciences	96	8	598	591	694	599	-95	-13.7
Social and Behavioral Sciences	865	161	2,747	3,138	3,612	3,299	-313	-8.7
Business	3,361	3,718	3,298	3,207	6,659	6,925	266	4.0
Continuing Education	3	0	2,157	1,876	2,160	1,876	-284	-13.1
Dentistry								
Dental Hygiene	41	22	84	95	125	117	-8	-6.4
Education	1,442	1,364	1,579	1,507	3,021	2,871	-150	-5.0
Engineering								
Engineering	1,237	1,145	4,179	3,956	5,416	5,101	-315	-5.8
Architecture	387	452	529	495	916	947	31	3.4
Human Ecology	338	407	1,105	1,074	1,443	1,481	38	2.6
Medicine								
Allied Medical Professions	734	724	589	595	1,323	1,319	-4	-0.3
Nursing	236	272	504	499	740	771	31	4.2
Pharmacy	281	315	469	475	750	790	40	5.3
Social Work	135	116	166	172	301	288	-13	-4.3
Preprofessional Curricula								
Pre-Dentistry	74	84	n/a	n/a	74	84	10	13.5
Pre-Medicine	301	536	n/a	n/a	301	536	235	78.1
Pre-Optometry	79	105	n/a	n/a	79	105	26	32.9
Pre-Veterinary Medicine	136	166	n/a	n/a	136	166	30	22.1
Undecided	3,538	2,848	n/a	n/a	3,538	2,848	-690	-19.5
<b>TOTAL UNDERGRADUATE</b>	<b>15,508</b>	<b>15,265</b>	<b>25,030</b>	<b>24,857</b>	<b>40,538</b>	<b>40,122</b>	<b>-416</b>	<b>-1.0</b>
<b>PROFESSIONAL</b>								
Dentistry			447	440	447	440	-7	-1.6
Law			635	627	635	627	-8	-1.3
Medicine			907	887	907	887	-20	-2.2
Optometry			234	231	234	231	-3	-1.3
Pharmacy, Doctor of			13	17	13	17	4	30.8
Veterinary Medicine			507	506	507	506	-1	-0.2
<b>TOTAL POSTBACCALAUREATE PROFESSIONAL</b>			<b>2,743</b>	<b>2,708</b>	<b>2,743</b>	<b>2,708</b>	<b>-35</b>	<b>-1.3</b>
<b>GRADUATE</b>			<b>10,388</b>	<b>10,065</b>	<b>10,388</b>	<b>10,065</b>	<b>-323</b>	<b>-3.1</b>
<b>TOTAL</b>	<b>15,508</b>	<b>15,265</b>	<b>38,161</b>	<b>37,630</b>	<b>53,669</b>	<b>52,895</b>	<b>-774</b>	<b>-1.4</b>

HEADCOUNT, CREDITS, AND CREDITS PER STUDENT BY LEVEL  
AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 5

	FULL-TIME*		PART-TIME		TOTAL				
	Head- count	Credits	Head- count	Credits	Head- count	Credits	Credits per Student		
UNDERGRADUATE									
Columbus									
AU '88	33,721	516,961	6,817	45,440	40,538	562,401	13.87		
AU '89	33,816	518,484	6,306	41,866	40,122	560,350	13.97		
Change	95	1,523	-511	-3,574	-416	-2,051	0.09		
% Change	0.3%	0.3%	-7.5%	-7.9%	-1.0%	-0.4%	0.7%		
Not-Columbus									
AU '88	3,831	58,362	1,757	11,598	5,588	69,960	12.52		
AU '89	4,136	63,197	1,675	11,310	5,811	74,507	12.82		
Change	305	4,835	-82	-288	223	4,547	0.30		
% Change	8.0%	8.3%	-4.7%	-2.5%	4.0%	6.5%	2.4%		
Total Undergraduate									
AU '88	37,552	575,323	8,574	57,038	46,126	632,361	13.71		
AU '89	37,952	581,681	7,981	53,176	45,933	634,857	13.82		
Change	400	6,358	-593	-3,862	-193	2,496	0.11		
% Change	1.1%	1.1%	-6.9%	-6.8%	-0.4%	0.4%	0.8%		
	FULL-TIME*		PART-TIME		TOTAL				
	Head- count	Credits	Head- count	Credits	Head- count	Credits	Credits per Student		
Postbaccalaureate Professional									
Columbus									
AU '88	2,672	53,449	71	588	2,743	54,037	19.70		
AU '89	2,670	52,889	38	186	2,708	53,075	19.60		
Change	-2	-560	-33	-402	-35	-962	-0.10		
% Change	-0.1%	-1.0%	-46.5%	-68.4%	-1.3%	-1.8%	-0.5%		
	FULL-TIME*		8 or 9 CREDITS		< 8 CREDITS		TOTAL		
	Head- count	Credits	Head- count	Credits	Head- count	Credits	Head- count	Credits per Student	
GRADUATE									
Columbus									
AU '88	4,910	65,379	988	8,320	4,490	20,005	10,388	93,704	9.02
AU '89	4,987	65,916	956	8,049	4,122	18,216	10,065	92,181	9.16
Change	77	537	-32	-271	-368	-1,789	-323	-1,523	0.14
% Change	1.6%	0.8%	-3.2%	-3.3%	-8.2%	-8.9%	-3.1%	-1.6%	1.5%
Not-Columbus									
AU '88	24	303	3	26	263	751	290	1,080	3.72
AU '89	24	347	11	96	253	760	288	1,203	4.18
Change	0	44	8	70	-10	9	-2	123	0.45
% Change	0.0%	14.5%	266.7%	269.2%	-3.8%	1.2%	-0.7%	11.4%	12.2%
Total Graduate									
AU '88	4,934	65,682	991	8,346	4,753	20,756	10,678	94,784	8.88
AU '89	5,011	66,263	967	8,145	4,375	18,976	10,353	93,384	9.02
Change	77	581	-24	-201	-378	-1,780	-325	-1,400	0.14
% Change	1.6%	0.9%	-2.4%	-2.4%	-8.0%	-8.6%	-3.0%	-1.5%	1.6%

\* Undergraduate students are classified as full-time if they register for 12 or more credits. Graduate or postbaccalaureate professional students are classified as full-time if they register for 10 or more credits.

Full-time equivalency can be determined by dividing the total number of credits by 15.



ENROLLMENT BY COUNTY AT THE TIME OF APPLICATION\*  
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 6

Ohio County	AU '88	AU '89	% Change	Ohio County	AU '88	AU '89	% Change
Adams	44	50	13.6%	Marion	994	939	-5.5%
Allen	1,178	1,119	-5.0%	Medina	480	471	-1.9%
Ashland	344	327	-4.9%	Meigs	23	26	13.0%
Ashtabula	221	213	-3.6%	Mercer	165	170	3.0%
Athens	98	85	-13.3%	Miami	295	286	-3.1%
Auglaize	340	314	-7.6%	Monroe	67	77	14.9%
Belmont	324	305	-5.9%	Montgomery	1,660	1,619	-2.5%
Brown	58	55	-5.2%	Morgan	41	43	4.9%
Butler	610	580	-4.9%	Morrow	267	273	2.2%
Carroll	62	60	-3.2%	Muskingum	403	398	-1.2%
Champaign	170	156	-8.2%	Noble	27	31	14.8%
Clark	463	439	-5.2%	Ottawa	132	132	0.0%
Clermont	147	164	11.6%	Paulding	49	60	22.4%
Clinton	92	91	-1.1%	Perry	127	125	-1.6%
Columbiana	307	292	-4.9%	Pickaway	315	276	-12.4%
Coshocton	239	246	2.9%	Pike	67	49	-26.9%
Crawford	528	531	0.6%	Portage	251	222	-11.6%
Cuyahoga	3,903	3,769	-3.4%	Preble	72	77	6.9%
Darke	150	129	-14.0%	Putnam	286	329	15.0%
Defiance	98	117	19.4%	Richland	1,498	1,458	-2.7%
Delaware	940	916	-2.6%	Ross	203	196	-3.4%
Erie	332	304	-8.4%	Sandusky	191	197	3.1%
Fairfield	822	865	5.2%	Scioto	232	232	0.0%
Fayette	108	99	-8.3%	Seneca	255	254	-0.4%
Franklin	15,373	14,643	-4.7%	Shelby	204	196	-3.9%
Fulton	99	100	1.0%	Stark	1,162	1,158	-0.3%
Gallia	78	85	9.0%	Summit	1,393	1,376	-1.2%
Geauga	367	371	1.1%	Trumbull	714	647	-9.4%
Greene	501	488	-2.6%	Tuscarawas	256	258	0.8%
Guernsey	148	140	-5.4%	Union	326	334	2.5%
Hamilton	1,631	1,626	-0.3%	Van Wert	155	161	3.9%
Hancock	342	313	-8.5%	Vinton	11	9	-18.2%
Hardin	233	202	-13.3%	Warren	231	230	-0.4%
Harrison	53	47	-11.3%	Washington	247	257	4.0%
Henry	96	99	3.1%	Wayne	380	368	-3.2%
Highland	69	63	-8.7%	Williams	105	110	4.8%
Hocking	66	83	25.8%	Wood	304	313	3.0%
Holmes	84	80	-4.8%	Wyandot	153	166	8.5%
Huron	285	287	0.7%	Total Ohio Counties	51,200	49,809	-2.7%
Jackson	64	70	9.4%	Other States and D.C.	5,299	5,772	9.0%
Jefferson	385	422	9.6%	U.S. Territories	106	100	-5.7%
Knox	355	326	-8.2%	U.S. Students from			
Lake	752	746	-0.8%	Foreign Countries	148	415	180.4%
Lawrence	105	133	26.7%	Foreign Students	2,794	2,898	3.7%
Licking	1,695	1,721	1.5%	Total Enrolled	59,547	58,994	-0.9%
Logan	238	257	8.0%				
Lorain	834	809	-3.0%				
Lucas	1,024	981	-4.2%				
Madison	298	269	-9.7%				
Mahoning	706	699	-1.0%				

\*Determined by domestic student's permanent address at time of application for admission. Foreign students include only nonresident aliens, regardless of permanent address given at the time of application.

ENROLLMENT BY COUNTY AT THE TIME OF APPLICATION\*  
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 7

Ohio County	AU '88	AU '89	% Change	Ohio County	AU '88	AU '89	% Change
Adams	44	43	-2.3%	Marion	407	356	-12.5%
Allen	512	489	-4.5%	Medina	456	445	-2.4%
Ashland	208	185	-11.1%	Meigs	21	24	14.3%
Ashtabula	217	201	-7.4%	Mercer	147	153	4.1%
Athens	95	83	-12.6%	Miami	288	281	-2.4%
Auglaize	205	179	-12.7%	Monroe	65	66	1.5%
Belmont	315	300	-4.8%	Montgomery	1,640	1,597	-2.6%
Brown	56	52	-7.1%	Morgan	40	43	7.5%
Butler	602	566	-6.0%	Montrow	144	142	-1.4%
Carroll	55	53	-3.6%	Muskingum	340	334	-1.8%
Champaign	167	154	-7.8%	Noble	23	28	21.7%
Clark	457	433	-5.3%	Ottawa	123	130	5.7%
Clermont	146	159	8.9%	Paulding	37	46	24.3%
Clinton	91	88	-3.3%	Perry	88	85	-3.4%
Columbiana	291	277	-4.8%	Pickaway	309	269	-12.9%
Coshocton	152	166	9.2%	Pike	65	49	-24.6%
Crawford	239	252	5.4%	Portage	230	200	-13.0%
Cuyahoga	3,816	3,686	-3.4%	Preble	69	72	4.3%
Darke	144	123	-14.6%	Putnam	146	165	13.0%
Defiance	92	107	16.3%	Richland	710	677	-4.6%
Delaware	783	748	-4.5%	Ross	198	191	-3.5%
Erie	317	291	-8.2%	Sandusky	185	187	1.1%
Fairfield	734	778	6.0%	Scioto	230	231	0.4%
Fayette	106	96	-9.4%	Seneca	238	236	-0.8%
Franklin	15,119	14,340	-5.2%	Shelby	160	157	-1.9%
Fulton	95	97	2.1%	Stark	1,113	1,095	-1.6%
Gallia	77	84	9.1%	Summit	1,344	1,340	-0.3%
Geauga	362	358	-1.1%	Trumbull	698	630	-9.7%
Greene	496	480	-3.2%	Tuscarawas	235	233	-0.9%
Guernsey	138	131	-5.1%	Union	265	259	-2.3%
Hamilton	1,619	1,617	-0.1%	Van Wert	98	94	-4.1%
Hancock	302	283	-6.3%	Vinton	9	8	-11.1%
Hardin	127	104	-18.1%	Warren	223	225	0.9%
Harrison	49	42	-14.3%	Washington	237	250	5.5%
Henry	93	96	3.2%	Wayne	299	288	-3.7%
Highland	67	62	-7.5%	Williams	102	108	5.9%
Hocking	64	80	25.0%	Wood	297	307	3.4%
Holmes	59	57	-3.4%	Wyandot	91	97	6.6%
Huron	199	195	-2.0%				
Jackson	60	68	13.3%	Total Ohio Counties	45,376	43,916	-3.2%
Jefferson	381	411	7.9%	Other States and D.C.	5,253	5,696	8.4%
Knox	225	193	-14.2%	U.S. Territories	106	100	-5.7%
Lake	738	732	-0.8%	U.S. Students from			
Lawrence	104	132	26.9%	Foreign Countries	144	296	105.6%
Licking	827	892	7.9%	Foreign Students	2,790	2,887	3.5%
Logan	176	176	0.0%				
Lorain	794	767	-3.4%	Total Enrolled	53,669	52,895	-1.4%
Lucas	1,001	964	-3.7%				
Madison	292	260	-11.0%				
Mahoning	698	688	-1.4%				

\*Determined by domestic student's permanent address at time of application for admission. Foreign students include only nonresident aliens, regardless of permanent address given at the time of application.

ENROLLMENT BY STATE AT THE TIME OF APPLICATION\*  
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 8

State or Territory	AU '88	AU '89	Percent Change	State or Territory	AU '88	AU '89	Percent Change
Ohio	51,200	49,809	-2.7%	Arizona	35	41	17.1%
New York	651	712	9.4%	New Hampshire	35	40	14.3%
Pennsylvania	662	683	3.2%	Louisiana	39	39	0.0%
Michigan	385	447	16.1%	Kansas	39	39	0.0%
New Jersey	396	407	2.8%	Utah	23	31	34.8%
Illinois	335	385	14.9%	New Mexico	25	27	8.0%
California	274	309	12.8%	District of Columbia	14	25	78.6%
Florida	209	228	9.1%	Oregon	25	23	-8.0%
Maryland	164	191	16.5%	Hawaii	21	23	9.5%
Texas	180	184	2.2%	Rhode Island	14	21	50.0%
Indiana	164	180	9.8%	Delaware	25	21	-16.0%
West Virginia	162	178	9.9%	Idaho	20	20	0.0%
Virginia	147	171	16.3%	Nevada	17	19	11.8%
Massachusetts	112	135	20.5%	Arkansas	18	19	5.6%
Kentucky	123	130	5.7%	Mississippi	19	18	-5.3%
Wisconsin	104	114	9.6%	Maine	19	17	-10.5%
Connecticut	97	104	7.2%	North Dakota	12	17	41.7%
North Carolina	81	93	14.8%	Montana	11	12	9.1%
Puerto Rico	96	90	-6.3%	Alaska	9	10	11.1%
Missouri	90	79	-12.2%	South Dakota	12	9	-25.0%
Georgia	66	77	16.7%	Wyoming	11	9	-18.2%
Minnesota	60	66	10.0%	Virgin Islands	8	8	0.0%
Tennessee	60	66	10.0%	Vermont	7	5	-28.6%
Colorado	56	65	16.1%	Guam	2	2	0.0%
Washington	50	51	2.0%	Unknown		2	
Nebraska	52	49	-5.8%	TOTAL U.S. STUDENTS	56,605	55,681	-1.6%
Alabama	40	49	22.5%	Ohio Students	51,200	49,809	-2.7%
Oklahoma	40	45	12.5%	Non-Ohio U.S. Students	5,405	5,872	8.6%
Iowa	39	44	12.8%				
South Carolina	50	43	-14.0%				

\*Determined by domestic student's permanent address at time of application for admission.

ENROLLMENT BY STATE AT THE TIME OF APPLICATION\*  
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 9

State or Territory	AU '88	AU '89	Percent Change	State or Territory	AU '88	AU '89	Percent Change
Ohio	45,376	43,916	-3.2%	Arizona	35	41	17.1%
New York	648	709	9.4%	Louisiana	37	39	5.4%
Pennsylvania	651	669	2.8%	Kansas	37	39	5.4%
Michigan	381	440	15.5%	New Hampshire	35	39	11.4%
New Jersey	393	402	2.3%	Utah	22	31	40.9%
Illinois	332	382	15.1%	New Mexico	25	26	4.0%
California	274	304	10.9%	District of Columbia	14	25	78.6%
Florida	207	225	8.7%	Oregon	25	23	-8.0%
Maryland	164	191	16.5%	Hawaii	20	23	15.0%
Texas	179	179	0.0%	Rhode Island	14	20	42.9%
Indiana	162	179	10.5%	Idaho	20	20	0.0%
West Virginia	158	174	10.1%	Delaware	24	20	-16.7%
Virginia	146	168	15.1%	Nevada	17	18	5.9%
Massachusetts	112	134	19.6%	Mississippi	19	18	-5.3%
Kentucky	121	126	4.1%	Maine	19	17	-10.5%
Wisconsin	103	113	9.7%	Arkansas	18	17	-5.6%
Connecticut	97	102	5.2%	North Dakota	12	16	33.3%
North Carolina	81	91	12.3%	Montana	11	12	9.1%
Puerto Rico	96	90	-6.3%	Alaska	9	10	11.1%
Missouri	90	79	-12.2%	Wyoming	11	9	-18.2%
Georgia	66	76	15.2%	South Dakota	12	9	-25.0%
Minnesota	60	65	8.3%	Virgin Islands	8	8	0.0%
Colorado	56	65	16.1%	Vermont	7	5	-28.6%
Tennessee	60	64	6.7%	Guam	2	2	0.0%
Washington	50	51	2.0%	Unknown		2	
Nebraska	52	49	-5.8%	TOTAL U.S. STUDENTS	50,735	49,712	-2.0%
Alabama	39	49	25.6%	Ohio Students	45,376	43,916	-3.2%
Iowa	39	44	12.8%	Non-Ohio U.S. Students	5,359	5,796	8.2%
Oklahoma	40	44	10.0%				
South Carolina	49	43	-12.2%				

\*Determined by domestic student's permanent address at time of application for admission.

ENROLLMENT OF INTERNATIONAL STUDENTS  
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 10

Country	Autumn 1988	Autumn 1989	Percent Change	Country	Autumn 1988	Autumn 1989
REPUBLIC OF CHINA	473	466	-1.5%	KENYA	5	5
REPUBLIC OF KOREA	337	356	5.6%	ZAIRE	6	5
PEOPLE'S REPUBLIC OF CHINA	263	342	30.0%	BURMA	7	5
INDIA	264	294	11.4%	KUWAIT	4	5
JAPAN	77	104	35.1%	NEPAL	2	4
INDONESIA	113	103	-8.8%	TRINIDAD & TOBAGO	6	4
MALAYSIA	98	98	0.0%	REPUBLIC OF SOUTH AFRICA	4	4
HONG KONG	73	88	20.5%	NORWAY	4	4
CANADA	64	73	14.1%	PANAMA	6	4
GREECE	43	46	7.0%	SWAZILAND	5	4
THAILAND	54	46	-14.8%	BAHRAIN	2	4
IRAN	48	44	-8.3%	SOUTH AFRICA	4	4
TURKEY	36	43	19.4%	SWITZERLAND	1	3
PAKISTAN	35	36	2.9%	PERU	4	3
ENGLAND	40	33	-17.5%	SWEDEN	3	3
SINGAPORE	26	32	23.1%	SUDAN	3	3
JORDAN	31	32	3.2%	BELGIUM	2	3
FRANCE	27	32	18.5%	IVORY COAST	2	3
EGYPT	31	30	-3.2%	GUATEMALA	4	3
LEBANON	35	29	-17.1%	CAMEROON	3	3
PHILIPPINES	37	27	-27.0%	JAMAICA	1	3
SAUDI ARABIA	42	27	-35.7%	SOUTH WEST AFRICA	1	2
SYRIAN ARAB REPUBLIC	25	21	-16.0%	FINLAND	3	2
TUNISIA	21	21	0.0%	ICELAND	2	2
GERMAN FEDERAL REPUBLIC	32	20	-37.5%	ALGERIA	3	2
BRAZIL	21	20		BAHAMA ISLANDS	1	2
MEXICO	11	18		SENEGAL	2	2
SRI LANKA	16	17		PORTUGAL	1	2
CHILE	21	16		YEMEN	2	2
ARGENTINA	15	16		NICARAGUA	2	2
HUNGARY	12	16		NEW ZEALAND	3	2
CYPRUS	20	16		TANZANIA	3	2
UGANDA	6	13		BOLIVIA	4	2
MOROCCO	8	13		ZIMBABWE	2	2
COSTA RICA	11	13		TOGO	1	1
VENEZUELA	12	13		SOVIET UNION	0	1
GHANA	10	13		WEST INDIES	0	1
BANGLADESH	17	12		GERMAN DEMOCRATIC REPUBLIC	1	1
NIGERIA	20	11		EL SALVADOR	2	1
AUSTRALIA	11	11		PEOPLE'S REPUBLIC OF KOREA	1	1
COLOMBIA	18	10		GUINEA	1	1
UNITED ARAB EMIRATES	11	10		BULGARIA	1	1
ISRAEL	15	9		BRUNEI	2	1
POLAND	5	9		DENMARK	2	1
ECUADOR	7	9		UNKNOWN	0	1
DOMINICAN REPUBLIC	8	8		SAINT LUCIA	1	1
ITALY	8	7		NIGER	3	1
GUYANA	6	7		SIERRA LEONE	1	1
HAITI	0	7		SCOTLAND	3	1
NETHERLANDS	4	7		LUXEMBOURG	0	1
SPAIN	6	6		LIBYA	5	1
IRELAND	7	6		NETHERLANDS ANTILLES	2	1
ETHIOPIA	3	6		MALTA	1	1
YUGOSLAVIA	6	6				
IRAQ	6	5				
TOTAL INTERNATIONAL STUDENTS					2,897	

ENROLLMENT OF INTERNATIONAL STUDENTS BY CURRICULUM  
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 11

	Enrollment in Degree-Granting Programs				Enrollment by Graduate Students in Curricular Academic Programs			
	AU '88	Percent of Total Enrolled	AU '89	Percent of Total Enrolled	AU '88	Percent of Total Enrolled	AU '89	Percent of Total Enrolled
UNDERGRADUATE					GRADUATE			
Agriculture								
Agriculture	10	0.8%	13	1.1%	200	40.6%	209	43.7%
Natural Resources	0	0.0%	1	0.3%	6	15.0%	4	10.8%
Arts and Sciences								
Arts and Sciences, General	12	0.8%	17	0.9%				
Arts and Sciences, Unknown	4	5.6%	1	0.9%				
The Arts	6	0.8%	9	1.3%	71	14.6%	77	16.6%
Biological Sciences	4	0.5%	7	0.9%	93	28.4%	113	33.6%
Humanities	5	0.4%	8	0.6%	134	17.8%	141	17.4%
Journalism	7	0.6%	5	0.6%	10	9.6%	14	14.1%
Mathematical and Physical Sciences	9	1.5%	9	1.5%	355	40.7%	362	42.0%
Social and Behavioral Sciences	15	0.5%	11	0.4%	210	23.2%	188	22.9%
Business	65	2.0%	84	2.6%	121	14.7%	106	15.8%
Continuing Education	89	4.1%	88	4.7%				
Dentistry								
Dental Hygiene	1	1.2%	0	0.0%				
Education	7	0.4%	3	0.2%	154	5.6%	163	6.5%
Engineering								
Engineering	174	4.2%	169	4.3%	632	49.3%	657	51.9%
Architecture	14	2.6%	9	1.8%	71	34.0%	58	31.2%
Graduate School	n/a	n/a	n/a	n/a	37	36.3%	59	21.1%
Human Ecology	8	0.7%	10	0.9%	39	22.3%	29	17.2%
Medicine								
Allied Medical Professions	3	0.5%	1	0.2%	3	4.2%	5	6.7%
Nursing	0	0.0%	0	0.0%	1	0.5%	0	0.0%
Pharmacy	13	2.8%	15	3.2%	24	28.2%	28	30.8%
Social Work	0	0.0%	0	0.0%	10	2.7%	12	3.5%
University College	97	0.6%	118	0.8%	n/a	n/a	n/a	n/a
TOTAL	543	1.3%	578	1.4%				
PROFESSIONAL								
Dentistry	8	1.8%	9	2.0%	14	17.7%	14	19.2%
Law	2	0.3%	3	0.5%				
Medicine	0	0.0%	0	0.0%	29	14.4%	38	17.1%
Optometry	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Pharmacy, Doctor of	2	15.4%	1	5.9%				
Veterinary Medicine	0	0.0%	0	0.0%	21	30.0%	19	25.0%
TOTAL	12	0.4%	13	0.5%	2,235	21.5%	2,296	22.8%

ENROLLMENT BY RACE AND CAMPUS  
AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 12

	Columbus	Lima	Mansfield	Marion	Newark	Wooster	TOTAL
<b>Nonresident Alien</b>							
AU '88	2,790	0	0	0	0	4	2,794
AU '89	2,887	0	0	0	2	9	2,898
Change	97	0	0	0	2	5	104
% Change	3.5%					125.0%	3.7%
<b>Black</b>							
AU '88	2,413	28	24	50	26	28	2,569
AU '89	2,571	26	30	51	24	27	2,729
Change	158	-2	6	1	-2	0	160
% Change	6.5%	-7.1%	25.0%	2.0%	-7.7%	-3.6%	6.2%
<b>American Indian/Alaskan Native</b>							
AU '88	88	0	5	5	1	2	101
AU '89	82	3	5	5	3	1	99
Change	-6	3	0	0	2	-1	-2
% Change	-6.8%		0.0%	0.0%	200.0%	-50.0%	-2.0%
<b>Asian/Pacific Islander</b>							
AU '88	1,305	2	5	4	5	1	1,322
AU '89	1,381	7	8	9	11	1	1,417
Change	76	5	3	5	6	0	95
% Change	5.8%	250.0%	60.0%	125.0%	120.0%	0.0%	7.2%
<b>Hispanic</b>							
AU '88	611	7	6	1	2	0	627
AU '89	614	9	6	1	3	3	636
Change	3	2	0	0	1	3	9
% Change	0.5%	28.6%	0.0%	0.0%	50.0%		1.4%
<b>White</b>							
AU '88	44,161	1,160	1,107	987	1,343	638	49,396
AU '89	43,443	1,217	1,193	1,024	1,444	658	48,979
Change	-718	57	86	37	101	20	-417
% Change	-1.6%	4.9%	7.8%	3.7%	7.5%	3.1%	-0.8%
<b>Unknown</b>							
AU '88	2,301	79	130	90	126	12	2,738
AU '89	1,917	51	94	71	95	8	2,236
Change	-384	-28	-36	-19	-31	-4	-502
% Change	-16.7%	-35.4%	-27.7%	-21.1%	-24.6%	-33.3%	-18.3%
<b>TOTAL UNIVERSITY</b>							
AU '88	53,669	1,276	1,277	1,137	1,503	685	59,547
AU '89	52,895	1,313	1,336	1,161	1,582	707	58,994
Change	-774	37	59	24	79	22	-553
% Change	-1.4%	2.9%	4.6%	2.1%	5.3%	3.2%	-0.9%

ENROLLMENT BY LEVEL, SOURCE, AND RACE  
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 13

	Undergraduate			Post- baccalaureate Professional	Graduate	TOTAL
	NFQF	Other	Total			
Nonresident Alien						
AU '88	24	523	547	12	2,235	2,794
AU '89	34	555	589	13	2,296	2,898
Change	10	32	42	1	61	104
% Change	41.7%	6.1%	7.7%	8.3%	2.7%	3.7%
Black						
AU '88	482	1,507	1,989	123	457	2,569
AU '89	543	1,543	2,086	142	501	2,729
Change	61	36	97	19	44	160
% Change	12.7%	2.4%	4.9%	15.4%	9.6%	6.2%
American Indian/Alaskan Native						
AU '88	13	57	70	7	24	101
AU '89	14	52	66	9	24	99
Change	1	-5	-4	2	0	-2
% Change	7.7%	-8.8%	-5.7%	28.6%	0.0%	-2.0%
Asian/Pacific Islander						
AU '88	171	813	984	130	208	1,322
AU '89	189	907	1,096	142	179	1,417
Change	18	94	112	12	-29	95
% Change	10.5%	11.6%	11.4%	9.2%	-13.9%	7.2%
Hispanic						
AU '88	96	356	452	44	131	627
AU '89	129	357	486	38	112	636
Change	33	1	34	-6	-19	9
% Change	34.4%	0.3%	7.5%	-13.6%	-14.5%	1.4%
White						
AU '88	7,820	32,383	40,203	2,370	6,823	49,396
AU '89	7,200	32,857	40,057	2,311	6,611	48,979
Change	-620	474	-146	-59	-212	-417
% Change	-7.9%	1.5%	-0.4%	-2.5%	-3.1%	-0.8%
Unknown						
AU '88	116	1,765	1,881	57	800	2,738
AU '89	78	1,475	1,553	53	630	2,236
Change	-38	-290	-328	-4	-170	-502
% Change	-32.8%	-16.4%	-17.4%	-7.0%	-21.3%	-18.3%
TOTAL UNIVERSITY						
AU '88	8,722	37,404	46,126	2,743	10,678	59,547
AU '89	8,187	37,746	45,933	2,708	10,353	58,994
Change	-535	342	-193	-35	-325	-553
% Change	-6.1%	0.9%	-0.4%	-1.3%	-3.0%	-0.9%



ENROLLMENT BY LEVEL, SOURCE, AND RACE  
COLUMBUS CAMPUS

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 14

	Undergraduate			Post- baccalaureate Professional	Graduate	TOTAL
	NFQF	Other	Total			
Nonresident Alien						
AU '88	23	520	543	12	2,235	2,790
AU '89	34	544	578	13	2,296	2,887
Change	11	24	35	1	61	97
% Change	47.8%	4.6%	6.4%	8.3%	2.7%	3.5%
Black						
AU '88	447	1,390	1,837	123	453	2,413
AU '89	486	1,449	1,935	142	494	2,571
Change	39	59	98	19	41	158
% Change	8.7%	4.2%	5.3%	15.4%	9.1%	6.5%
American Indian/Alaskan Native						
AU '88	11	48	59	7	22	88
AU '89	10	41	51	9	22	82
Change	-1	-7	-8	2	0	-6
% Change	-9.1%	-14.6%	-13.6%	28.6%	0.0%	-6.8%
Asian/Pacific Islander						
AU '88	164	803	967	130	208	1,305
AU '89	165	895	1,060	142	179	1,381
Change	1	92	93	12	-29	76
% Change	0.6%	11.5%	9.6%	9.2%	-13.9%	5.8%
Hispanic						
AU '88	94	342	436	44	131	611
AU '89	118	346	464	38	112	614
Change	24	4	28	-6	-19	3
% Change	25.5%	1.2%	6.4%	-13.6%	-14.5%	0.5%
White						
AU '88	6,279	28,922	35,201	2,370	6,590	44,161
AU '89	5,274	29,479	34,753	2,311	6,379	43,443
Change	-1005	557	-448	-59	-211	-718
% Change	-16.0%	1.9%	-1.3%	-2.5%	-3.2%	-1.6%
Unknown						
AU '88	80	1,415	1,495	57	749	2,301
AU '89	61	1,220	1,281	53	583	1,917
Change	-19	-195	-214	-4	-166	-384
% Change	-23.8%	-13.8%	-14.3%	-7.0%	-22.2%	-16.7%
COLUMBUS CAMPUS						
AU '88	7,098	33,440	40,538	2,743	10,388	53,669
AU '89	6,148	33,974	40,122	2,708	10,065	52,895
Change	-950	534	-416	-35	-323	-774
% Change	-13.4%	1.6%	-1.0%	-1.3%	-3.1%	-1.4%

ENROLLMENT BY LEVEL, RACE, AND RESIDENCY  
TOTAL UNIVERSITY

AUTUMN QUARTER 1989 COMPARED TO AUTUMN QUARTER 1988

FOURTEENTH DAY ENROLLMENT

TABLE 15

	Undergraduate			Postbaccalaureate Professional			Graduate		
	Ohio Resident	Not Ohio Resident	Total	Ohio Resident	Not Ohio Resident	Total	Ohio Resident	Not Ohio Resident	Total
<b>Nonresident Alien</b>									
AU '88		547	547		12	12		2,235	2,235
AU '89		589	589		13	13		2,296	2,296
Change		42	42		1	1		61	61
% Change		7.7%	7.7%		8.3%	8.3%		2.7%	2.7%
<b>Black</b>									
AU '88	1,897	92	1,989	76	47	123	333	124	457
AU '89	1,975	111	2,086	96	46	142	364	137	501
Change	78	19	97	20	-1	19	31	13	44
% Change	4.1%	20.7%	4.9%	26.3%	-2.1%	15.4%	9.3%	10.5%	9.6%
<b>American Indian or Alaskan Native</b>									
AU '88	65	5	70	6	1	7	18	6	24
AU '89	62	4	66	7	2	9	20	4	24
Change	-3	-1	-4	1	1	2	2	-2	0
% Change	-4.6%	-20.0%	-5.7%	16.7%	100.0%	28.6%	11.1%	-33.3%	0.0%
<b>Asian or Pacific Islander</b>									
AU '88	907	77	984	116	14	130	167	41	208
AU '89	1,025	71	1,096	124	18	142	136	43	179
Change	118	-6	112	8	4	12	-31	2	-29
% Change	13.0%	-7.8%	11.4%	6.9%	28.6%	9.2%	-18.6%	4.9%	-13.9%
<b>Hispanic</b>									
AU '88	384	68	452	31	13	44	84	47	131
AU '89	402	84	486	28	10	38	70	42	112
Change	18	16	34	-3	-3	-6	-14	-5	-19
% Change	4.7%	23.5%	7.5%	-9.7%	-23.1%	-13.6%	-16.7%	-10.6%	-14.5%
<b>White</b>									
AU '88	38,382	1,821	40,203	2,168	202	2,370	6,172	651	6,823
AU '89	38,138	1,919	40,057	2,117	194	2,311	5,732	879	6,611
Change	-244	98	-146	-51	-8	-59	-440	228	-212
% Change	-0.6%	5.4%	-0.4%	-2.4%	-4.0%	-2.5%	-7.1%	35.0%	-3.1%
<b>Unknown</b>									
AU '88	1,847	34	1,881	45	12	57	783	17	800
AU '89	1,511	42	1,553	48	5	53	611	19	630
Change	-336	8	-328	3	-7	-4	-172	2	-170
% Change	-18.2%	23.5%	-17.4%	6.7%	-58.3%	-7.0%	-22.0%	11.8%	-21.3%
<b>TOTAL UNIVERSITY</b>									
AU '88	43,482	2,644	46,126	2,442	301	2,743	7,557	3,121	10,678
AU '89	43,113	2,820	45,933	2,420	288	2,708	6,933	3,420	10,353
Change	-369	176	-193	-22	-13	-35	-624	299	-325
% Change	-0.8%	6.7%	-0.4%	-0.9%	-4.3%	-1.3%	-8.3%	9.6%	-3.0%

ENROLLMENT BY FULL-TIME/PART-TIME, LEVEL, AND AGE RANGE  
TOTAL UNIVERSITY

AUTUMN QUARTER 1989

FOURTEENTH DAY ENROLLMENT

TABLE 16

	FULL-TIME*			PART-TIME			TOTAL			
	Men	Women	Total	Men	Women	Total	Men	Women	Total	
UNDERGRADUATE										
0 to 17		113	189	302	22	26	48	135	215	350
18 to 19	7,500	7,601	15,101	436	398	834	7,936	7,999	15,935	
20 to 21	6,489	6,135	12,624	700	558	1,258	7,189	6,693	13,882	
22 to 24	4,190	2,653	6,843	1,072	818	1,890	5,262	3,471	8,733	
25 to 29	1,099	663	1,762	907	759	1,666	2,006	1,422	3,428	
30 to 34	313	370	683	420	465	885	733	835	1,568	
35 to 39	129	229	358	234	428	662	363	657	1,020	
40 to 49	53	182	235	165	408	573	218	590	808	
50 to 64	9	26	35	50	97	147	59	123	182	
65 and over	3	1	4	5	13	18	8	14	22	
Unknown	2	3	5	0	0	0	2	3	5	
TOTAL	19,900	18,052	37,952	4,011	3,970	7,981	23,911	22,022	45,933	
GRADUATE										
0 to 17	0	0	0	0	0	0	0	0	0	
18 to 19	1	0	1	0	0	0	1	0	1	
20 to 21	57	31	88	9	5	14	66	36	102	
22 to 24	737	663	1,400	289	298	587	1,026	961	1,987	
25 to 29	1,155	658	1,813	730	734	1,464	1,885	1,392	3,277	
30 to 34	610	318	928	562	581	1,143	1,172	899	2,071	
35 to 39	240	200	440	326	606	932	566	806	1,372	
40 to 49	123	171	294	226	749	975	349	920	1,269	
50 to 64	18	26	44	34	184	218	52	210	262	
65 and over	0	1	1	3	4	7	3	5	8	
Unknown	2	0	2	1	1	2	3	1	4	
TOTAL	2,943	2,068	5,011	2,180	3,162	5,342	5,123	5,230	10,353	
POSTBACCALAUREATE PROFESSIONAL										
0 to 17	1	0	1	0	0	0	1	0	1	
18 to 19	2	0	2	0	0	0	2	0	2	
20 to 21	51	59	110	0	0	0	51	59	110	
22 to 24	839	557	1,396	2	7	9	841	564	1,405	
25 to 29	570	341	911	9	14	23	579	355	934	
30 to 34	66	95	161	1	3	4	67	98	165	
35 to 39	23	40	63	0	2	2	23	42	65	
40 to 49	12	12	24	0	0	0	12	12	24	
50 to 64	1	0	1	0	0	0	1	0	1	
65 and over	1	0	1	0	0	0	1	0	1	
Unknown	0	0	0	0	0	0	0	0	0	
TOTAL	1,566	1,104	2,670	12	26	38	1,578	1,130	2,708	

\* Undergraduate students are classified as full-time if they register for 12 or more credits. Graduate or postbaccalaureate professional students are classified as full-time if they register for 10 or more credits.

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**APPENDIX XXIII**

**THE OHIO STATE UNIVERSITY LIBRARIES**

**Presented to the Board of Trustees, November 3, 1989  
(See page 378)**

**Presentation To**  
**The Ohio State University**  
**Board of Trustees**

**By**

***William J. Studer, Director***  
**The Ohio State**  
**University Libraries**

**November 3, 1989**

## **Mission Statement - The Ohio State University Libraries**

**To**

- **acquire, organize, preserve and provide bibliographic and physical access to a comprehensive collection of literature and information sources in support of the University's mission of teaching, research and service;**
- **facilitate access for faculty and students to the world's vast store of recorded knowledge beyond the holdings of Ohio State's libraries;**
- **provide dynamic information services to assist patrons in using information sources; and**
- **educate users in information-seeking skills essential to independent and lifelong learning**

**Context: Institutional aspiration: To be the finest university in the Big Ten and one of the top five public universities nationally**

# **Dimensions of The Ohio State University Libraries (Columbus Campus)\* 1987/88 Statistics**

Collection size:	4,254,266 volumes (ranks 16th among members of the Association of Research Libraries)
Serial subscriptions:	31,154
Microforms:	2,971,011
Staff (FTE):	118 Professional 210 Civil Service 126 Student 454 Total
Total expenditures:	\$15,791,448
Collections:	5,146,512 (32.6%)
Salaries & Wages:	8,434,918 (53.4%)
Operating:	2,210,018 (14%)
Number of library locations:	26
Square footage of all locations:	ca. 500,000
Seating for patrons:	6,620
Number of patrons entering libraries annually:	6 million
Items circulated (borrowed):	1,559,036
Items loaned to other libraries:	31,060
Items borrowed from other libraries:	13,297
Library Control System (LCS) transactions:	24,000,000 from 185 library terminals and 9 dial-access ports
Hours of Opening:	Main library open 110 hours/week

\*Includes Law and Health Sciences Libraries



## **Special Strengths/Achievements/Notables of The Ohio State University Libraries**

---

- **Pioneer in Library automation (cited in *Educom Review* article Summer 1989)**

The Library Control System (LCS) became operational in 1970 as circulation control system

LCS became full online public access catalog in 1982 (first in a major library)

LCS telephone center - allows patrons to call in, charge out materials, and have them mailed to a campus address

- **User Education Program (in forefront nationally)**

Reaches ca. 25,000 students annually through UVC 100, other courses, and special work shops with some form of instruction in use of information sources and the library system

Gateway Project (funded by two federal grants: \$288,225)

To provide computer-based guidance to finding one's way among information resources; to be available as a front-end to LCS

- **Special Collections**

Thurber

Charvat - American fiction

Carver, Algren, Burroughs, Busch, Hule, Mitford - manuscripts/papers

Hilandar Medieval Slavic manuscripts on microfilm (ca. 2,400 mss. from 16 countries)

Banks' Florilegium - 734 botanical plates from the late 18th century

Incunabula (ca. 90) - 15th century printed books

Library for Communication and Graphic Arts (editorial/cartoon art, photographs)

Lawrence & Lee Theatre Research Institute - microfilm archive of theatre history of the western world; scrapbooks, models; clippings; photographs, books and journals; brochures; costumes; etc., etc.

OSU Photoarchives - 800,000 images

- **Office of Preservation established in 1984**

To meet challenges of materials already too brittle for further use and of acidic paper throughout the collections

State-of-the-art air conditioning in Main Library stacks (1986)

- **Excellent staff - national awards; offices held; 3rd most active in publishing**

- **Affirmative Action**

Minority fellowship program in library science (1989)

Minority librarian Internship program (1989)

Four librarians from underrepresented minorities appointed to regular positions in the last 14 months (6/1/88-7/31/89) from a total of 14 appointments

## **How Ohio State Stands Comparatively with Libraries of the Top\* Ten Publicly-Assisted Universities and the Big Ten\*\***

### **Top\* Ten**

**University of Illinois, Urbana**

**University of California, Berkeley**

**University of Michigan**

**University of Texas, Austin**

**University of California, Los Angeles**

**University of Wisconsin, Madison**

**University of Washington**

**University of Minnesota**

**The Ohio State University**

**Indiana University, Bloomington**

**\*Based on size of collection.**

### **Big Ten\*\***

**University of Illinois, Urbana**

**University of Michigan**

**University of Wisconsin, Madison**

**University of Minnesota**

**The Ohio State University**

**Indiana University, Bloomington**

**Northwestern University**

**Michigan State University**

**University of Iowa**

**Purdue University, West Lafayette**

**\*\*In order by size of library collection.**

## Summary Data on Libraries

**The Ohio State University Libraries, Columbus  
contrasted with  
Mean Data for the Top\* Ten Publicly-Assisted  
University Libraries in the United States and  
Mean Data for the Libraries of the Big Ten  
1987/88**

	<b>Ohio State, Columbus</b>	<b>Mean of Top* Ten</b>	<b>Mean of Big Ten</b>
<b>Collections</b>			
Volumes Held	4,254,266	5,470,991	4,244,736
Volumes Added (Gross)	96,629	141,060	108,844
Serials Currently Received	31,154	63,615	41,477
<b>Staff</b>			
Professional Staff (FTE)	118	142	112
Non-Professional Staff (FTE)	210	263	193
Student Assistant Staff (FTE)	126	150	120
Total Staff	454	554	425
<b>Expenditures</b>			
For Salaries & Wages (excluding fringe benefits)	\$8,434,918	\$10,528,107	\$7,620,682
For Library Materials & Binding	\$5,146,512	\$5,866,264	\$4,810,692
Other Operating	\$2,210,018	\$2,758,760	\$1,918,503
Total Expenditures	\$15,791,448	\$19,153,131	\$14,349,877

\*(In order by size of collection: Illinois, Urbana; California, Berkeley; Michigan; Texas, Austin; California, Los Angeles; Wisconsin, Madison; Washington; Minnesota; Ohio State, Columbus; Indiana, Bloomington.)  
All data are taken from reports of the Association of Research Libraries.

# Library Collections, Top\* Ten Publicly-Assisted University Libraries In The United States, 1987/88

Institution	Volumes Held	(Rank)	Volumes Added (Gross)	(Rank)	Serials Currently Received	(Rank)
Illinois,** Urbana	7,377,051	(1)	189,222	(3)	92,530	(3)
California Berkeley**	7,190,821	(2)	195,012	(2)	98,861	(1)
Michigan	6,133,171	(3)	130,358	(6)	67,530	(5)
Texas,** Austin	5,888,776	(4)	141,903	(5)	79,392	(4)
California, Los Angeles	5,812,163	(5)	207,140	(1)	94,757	(2)
Wisconsin, Madison	4,804,386	(6)	100,070	(8)	50,913	(7)
Washington	4,764,341	(7)	162,688	(4)	55,080	(6)
Minnesota	4,473,262	(8)	94,262	(10)	39,246	(8)
OHIO STATE, Columbus	4,254,266	(9)	96,629	(9)	31,154	(9)
Indiana,** Bloomington	4,011,675	(10)	103,316	(7)	26,684	(10)
Mean	5,470,991		141,060		63,615	
Ohio State Deviation from Mean	- 1,216,725		- 44,431		- 32,461	
Ohio State Deviation from Illinois	- 3,122,785		- 92,593		- 61,376	
Ohio State Deviation from Michigan	- 1,878,905		- 33,729		- 36,376	

\*Based on size of library collection. All data are taken from ARL Statistics, 1987/88 (Washington: Association of Research Libraries, 1989).

\*\*Note: Data for these universities do not reflect health sciences/medical campuses.

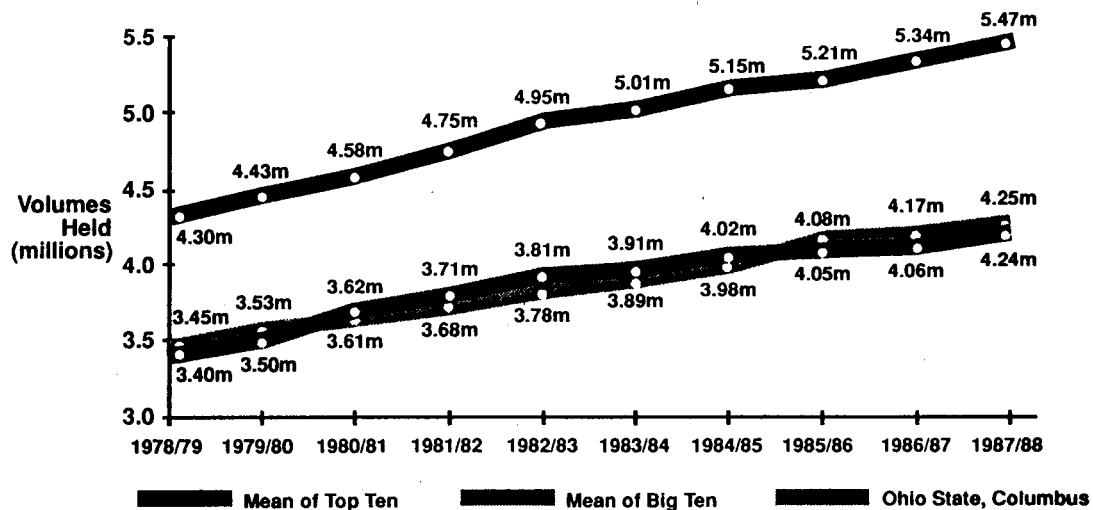
# Library Collections, Big Ten University Libraries\* 1987/88

Institution	Volumes Held	(Rank)	Volumes Added (Gross)	(Rank)	Serials Currently Received	(Rank)
Illinois,** Urbana	7,377,051	(1)	189,222	(1)	92,530	(1)
Michigan	6,133,171	(2)	130,358	(2)	67,530	(2)
Wisconsin, Madison	4,804,386	(3)	100,070	(5)	50,913	(3)
Minnesota	4,473,262	(4)	94,262	(8)	39,246	(4)
OHIO STATE Columbus	4,254,266	(5)	96,629	(6)	31,154	(6)
Indiana,** Bloomington	4,011,675	(6)	103,316	(4)	26,684	(8)
Northwestern	3,346,817	(7)	88,466	(9)	33,226	(5)
Michigan State**	3,301,739	(8)	116,564	(3)	29,556	(7)
Iowa	2,830,932	(9)	96,134	(7)	22,877	(9)
Purdue,** W. Lafayette	1,814,065	(10)	73,415	(10)	21,056	(10)
Mean	4,244,736		108,844		41,477	
Ohio State Deviation from Mean	+ 9,530		- 12,215		- 10,323	
Ohio State Deviation from Illinois	- 3,122,785		- 92,593		- 61,376	
Ohio State Deviation from Michigan	- 1,878,905		- 33,729		- 36,376	

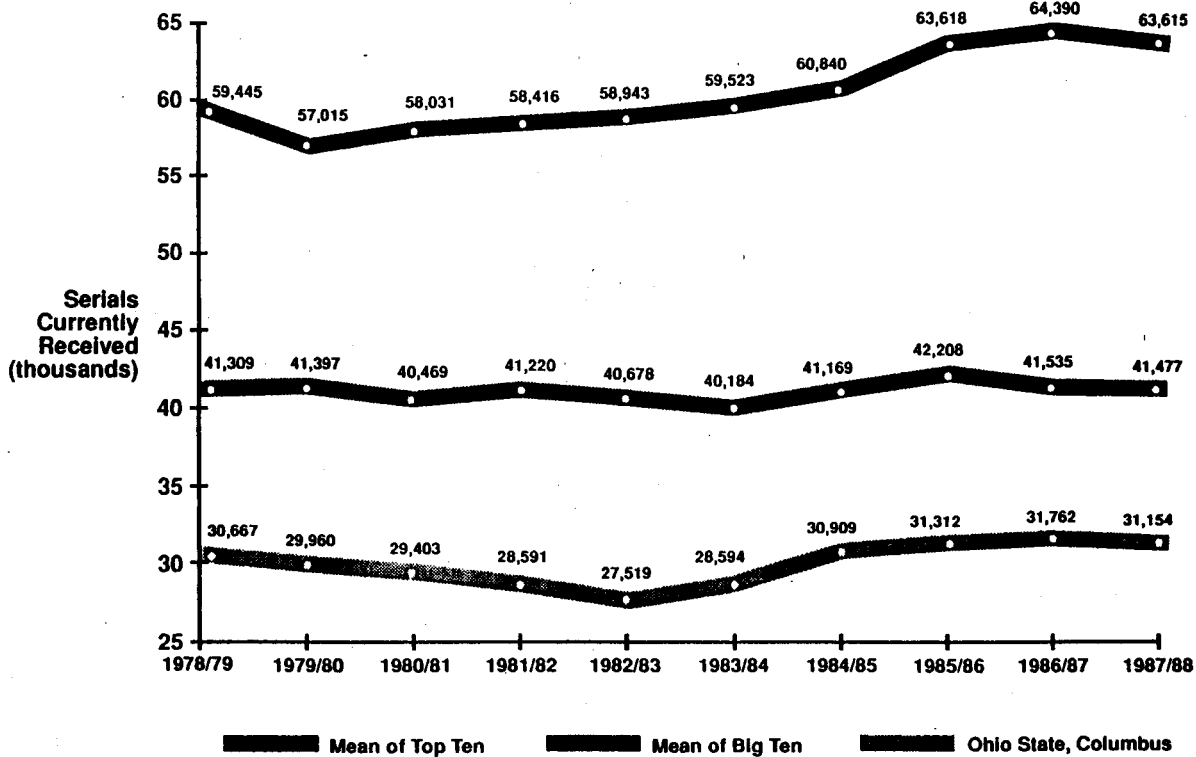
\*In order by size of library collection. All data are taken from ARL Statistics, 1987/88 (Washington: Association of Research Libraries, 1989).

\*\*Note: Data for these universities do not reflect health sciences/medical campuses.

# Trends in Growth of Library Collections 1978/79 - 1987/88



# Trends in Numbers of Serials Currently Received 1978/79 - 1987/88





## Levels of Library Expenditures, Top\* Ten Publicly-Assisted University Libraries In The United States, 1987/88

Institution	Educational and General Expenditures	(Rank)	Total Library Expenditures	(Rank)	Library Expenditures as Percentage of E&G	(Rank)
Illinois, Urbana**	\$541,935,721	(8)	\$16,337,081	(7)	3.0%	(5)
California Berkeley**	\$627,584,426	(7)	\$27,524,192	(2)	4.4%	(1)
Michigan	\$724,781,388	(3)	\$20,472,160,	(3)	2.8%	(6)
Texas,** Austin	\$452,538,832	(9)	\$17,582,447	(6)	3.9%	(2/3)
California, Los Angeles	\$919,530,137	(1)	\$28,447,376	(1)	3.1%	(4)
Wisconsin, Madison	\$703,522,589	(4)	\$18,161,108	(5)	2.6%	(7)
Washington	\$631,089,000	(6)	\$15,756,741	(9)	2.5%	(8/9)
Minnesota	\$760,890,141	(2)	\$18,850,330	(4)	2.5%	(8/9)
OHIO STATE, Columbus	\$666,604,334	(5)	\$15,791,448	(8)	2.4%	(10)
Indiana,** Bloomington	\$319,394,077	(10)	\$12,608,425	(10)	3.9%	(2/3)
Mean of Top Ten	\$634,787,065		\$19,153,131		3.1%	
Ohio State Deviation from Mean	+\$31,817,269		-\$3,361,683		- 0.7%	
Ohio State Deviation from Illinois	+\$124,668,613		-\$545,633		- 0.6%	
Ohio State Deviation from Michigan	-\$58,177,054		-\$4,680,712		- 0.4%	

\*Based on size of library collection. All data are taken from *ARL Statistics, 1987/88* (Washington: Association of Research Libraries, 1989).

Note: None of the "library expenditures" include fringe benefits.

\*\*Note: Data for these universities do not reflect health sciences/medical campuses.

## Levels of Library Expenditures, Big Ten University Libraries\* 1987/88

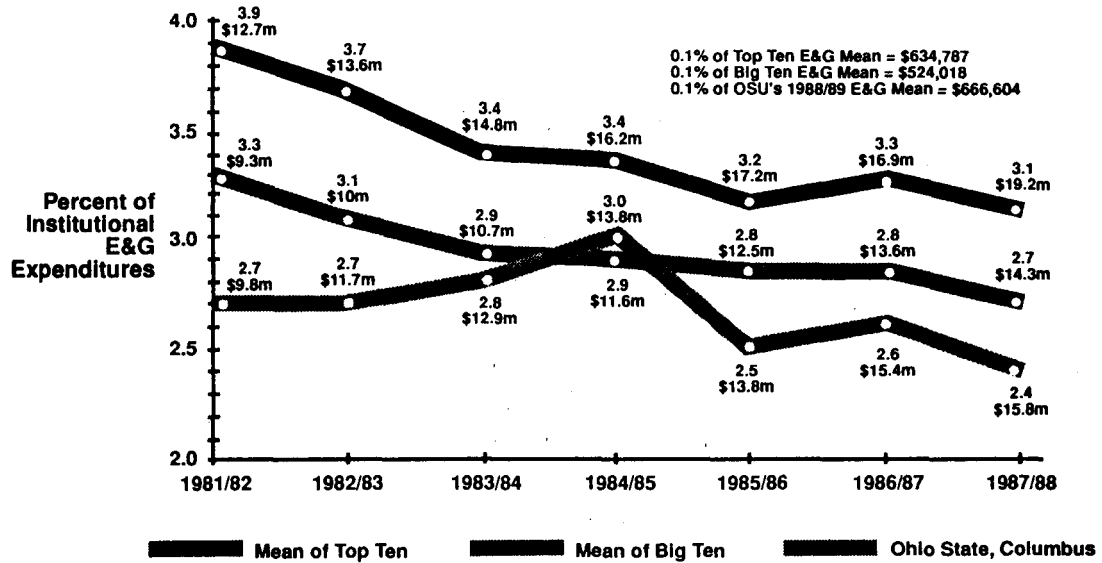
Institution	Educational and General Expenditures	(Rank)	Total Library Expenditures	(Rank)	Library Expenditures as Percentage of E&G	(Rank)
Illinois,** Urbana	\$541,935,721	(5)	\$16,337,081	(4)	3.0%	(3/4)
Michigan	\$724,781,388	(2)	\$20,472,160	(1)	2.8%	(5)
Wisconsin, Madison	\$703,522,589	(3)	\$18,161,108	(3)	2.6%	(6)
Minnesota	\$760,890,141	(1)	\$18,850,330	(2)	2.5%	(7)
OHIO STATE, Columbus	\$666,604,334	(4)	\$15,791,448	(5)	2.4%	(8)
Indiana,** Bloomington	\$319,394,077	(9)	\$12,608,425	(6)	3.9%	(1)
Northwestern	\$356,928,000	(8)	\$10,650,409	(7)	3.0%	(3/4)
Michigan State**	\$473,491,831	(6)	\$10,397,545	(8)	2.2%	(9)
Iowa	\$310,209,873	(10)	\$ 9,829,382	(9)	3.2%	(2)
Purdue,** W. Lafayette	\$382,424,199	(7)	\$ 7,350,599	(10)	1.9%	(10)
Mean of Top Ten	\$524,018,215		\$14,044,849		2.75%	
Ohio State Deviation from Mean	+\$142,586,119		+\$1,746,599		- 0.35%	
Ohio State Deviation from Illinois	+\$124,668,613		-\$545,633		- 0.60%	
Ohio State Deviation from Michigan	-\$58,177,054		-\$4,680,712		- 0.40%	

\*In order by size of library collection. All data are taken from ARL Statistics, 1987/88 (Washington: Association of Research Libraries, 1989).

Note: None of the "library expenditures" includes fringe benefits.

\*\*Note: Data for these universities do not reflect health sciences/medical campuses.

**Trends in Level of Library Expenditures, as Percent of  
University Educational and General Expenditures in Top\* Ten  
Publicly-Assisted University Libraries in the United States, the  
Big Ten, and at Ohio State, Columbus  
1981/82 - 1987/88**



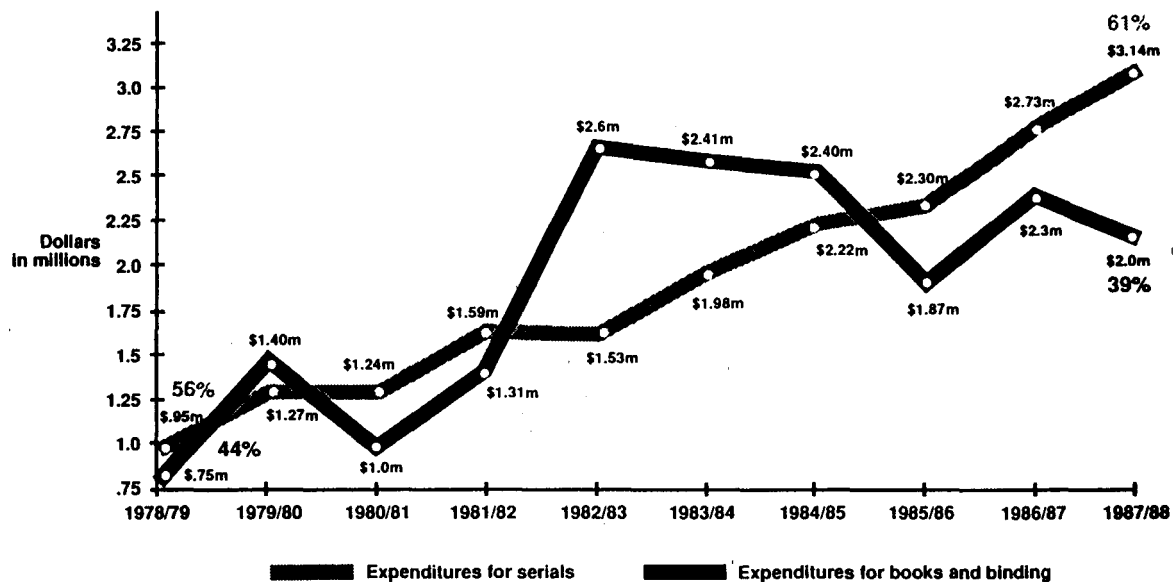
\* Based on size of library collection. All data are taken from reports of the Association of Research Libraries.

**Size of Faculty and Graduate/Professional Student Community Related To Levels Of Library Expenditures  
Top\* Ten Publicly-Assisted University Libraries in the United States, 1987/88**

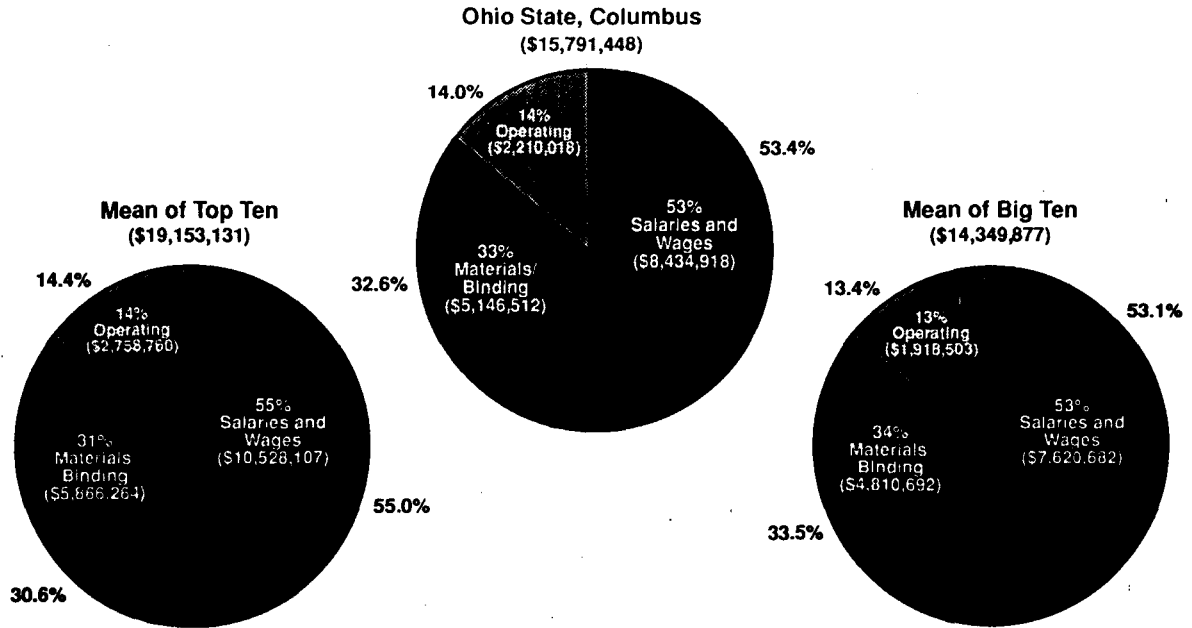
Institution	Full-Time Instructional Faculty (Total)	Rank	Total Library Expenditures per Full-Time Faculty Member	Rank	Graduate/Professional Students (Headcount Total)	Rank	Total Library Expenditures per Graduate/ Professional Student	Rank
Illinois,** Urbana	1,913	(2)	\$ 8,540	(9)	9,275	(8)	\$1,761	(4)
California, Berkeley**	1,378	(9)	\$19,974	(2)	9,281	(7)	\$2,966	(1)
Michigan	1,579	(5)	\$12,965	(3)	12,772	(3)	\$1,603	(5)
Texas,** Austin	1,842	(3)	\$ 9,545	(7)	11,548	(6)	\$1,523	(7)
California, Los Angeles	1,382	(8)	\$20,584	(1)	11,934	(5)	\$2,384	(2)
Wisconsin, Madison	1,449	(7)	\$12,534	(4)	13,591	(2)	\$1,336	(8)
Washington	1,664	(4)	\$ 9,469	(8)	8,611	(9)	\$1,830	(3)
Minnesota	1,538	(6)	\$12,256	(5)	14,178	(1)	\$1,330	(9)
OHIO STATE, Columbus	1,844	(1)	\$ 8,123	(10)	12,663	(4)	\$1,247	(10)
Indiana,** Bloomington	1,194	(10)	\$10,560	(6)	8,238	(10)	\$1,531	(6)
Mean of Top Ten	1,588		\$12,455		11,209		\$1,751	
Ohio State Deviation from Mean	+325(+20%)		-\$4,332(-35%)		+1,454(+13%)		-\$504(-29%)	
Ohio State Deviation from Illinois	+31(+2%)		-\$417(-5%)		+3,388(+37%)		-\$514(-29%)	
Ohio State Deviation from Michigan	+365(+23%)		-\$4,842(-37%)		-109(-1%)		-\$356(-22%)	

\*Based on size of library collection. \*\*Data for these universities do not reflect health sciences/medical campuses. Data sources: For students: Calculated from data in Freshmen in the Spot-Right: 1987 Enrollment at Public Four-Year Colleges and Universities (Washington: American Association of State Colleges and Universities and National Association of State Universities and Land-Grant Colleges, 1989) and the 19th ed. of Peterson's Guide to Four Year Colleges (1989). For faculty: from "The Annual Report on the Economic Status of the Profession, 1988-89," Academe (March-April 1989).

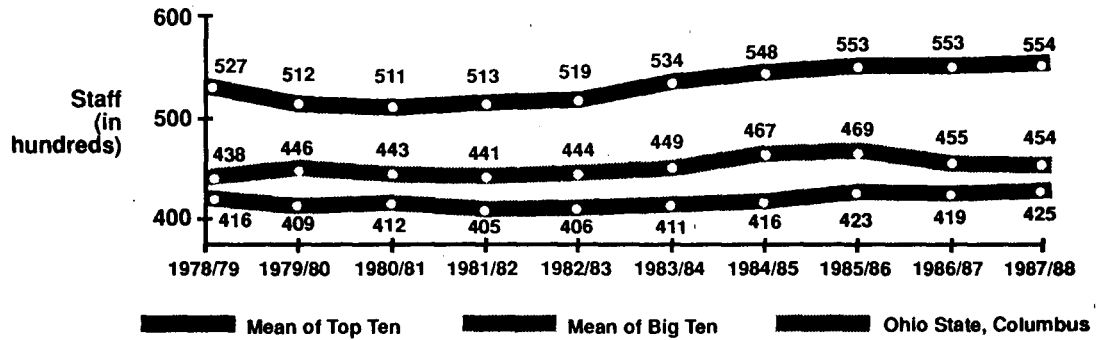
Trends in the Growth of Expenditures for  
Serials vs. Books and Binding,  
Ohio State, Columbus  
1978/79 - 1987/88



**Library Expenditure: Ohio State, Columbus  
With the Mean of the Top Ten Publicly Assisted Universities  
and the Big Ten  
1987/88**



# Trends In Growth Of Library Staff 1978/79 - 1987/88



# Size of Total Student Body Related to Levels of Library Professional Staffing Top\* Ten Publicly-Assisted University Libraries in the United States, 1987/88

Institution	Full-Time Students (Total) [Part-Time Students Excluded]	Rank	Ratio of Full-Time Students to Professional Library Staff	Rank	All Students (Headcount Total)	Rank	Ratio of All Students (Headcount Total) to Professional Library Staff	Rank
Illinois,** Urbana	33,185	(4)	224:1	(4/5)	38,970	(5)	263:1	(4)
California, Berkeley**	28,632	(8)	170:1	(2)	32,055	(10)	191:1	(2)
Michigan	31,575	(6)	222:1	(3)	35,623	(6)	251:1	(3)
Texas,** Austin	40,063	(2)	292:1	(9)	47,743	(3)	348:1	(8)
California, Los Angeles	32,982	(5)	158:1	(1)	35,435	(7)	170:1	(1)
Wisconsin, Madison	36,437	(3)	262:1	(8)	43,368	(4)	315:1	(7)
Washington	28,864	(7)	242:1	(6)	33,302	(9)	280:1	(5)
Minnesota	28,248	(10)	224:1	(4/5)	62,223	(1)	494:1	(10)
OHIO STATE, Columbus	42,584	(1)	361:1	(10)	53,115	(2)	450:1	(9)
Indiana,** Bloomington	28,240	(9)	252:1	(7)	33,421	(8)	288:1	(6)
Mean of Top Ten	33,083		241:1		41,526		306:1	
Ohio State Deviation from Mean	+9,511(+29%)		+120:1 (+50%)		+11,589(+28%)		+144:1 (+47%)	
Ohio State Deviation from Illinois	+9,408(+28%)		+137:1 (+61%)		+14,145(+36%)		+187:1 (+71%)	
Ohio State Deviation from Michigan	+11,020(+35%)		+139:1 (+63%)		+17,492(+49%)		+199:1 (+79%)	

\*Based on size of library collection. \*\*Data for these universities do not reflect health sciences/medical campuses. Data source: Freshmen in the Spotlight: 1987/1988 Enrollment at Public, Four-Year Colleges and Universities (Washington: American Association of State Colleges and Universities and National Association of State Universities and Land-Grant Colleges, 1988).



## Horizon Issues/Challenges

- **Physical Facilities**

Library for Communication and Graphic Arts (WCVA)

Fine Arts Library (WCVA)

Science & Engineering Library (In design drawing phase - completed 1992?)

Bio-sciences/Pharmacy Library (In Parks Hall addition - architect selected)

Book Depository (High density storage) (Architect selected - ready to begin schematic design)

New Main Library (Included in 1995/96 Capital Plan Budget)

Law Library (Expanded and remodeled - 1992)

- **Information Technology**

Ohio Library Information System (OLIS) (Central computerized union catalog of holdings of 17 Ohio state-assisted university libraries plus a variety of centrally mounted databases)

Interface OSU Libraries via the Ohio Academic Research Network (OARNET), which carries super computer traffic

Improve search power of the Library Control System by introduction of the capability to search on any key word in a bibliographic record

Test feasibility of locally mounting databases (with assistance of the Instruction and Research Computing Center) in order to provide OSU faculty and students with free access to electronic information sources via both library terminals and office/home-based personal computers

Connect all library locations to OSU's SONNET communications system in order to facilitate the most flexible and widespread access to LCS, OLIS, and all other electronic databases made available under auspices of the Libraries

Together with the other 10 CIC libraries, establish a connection with the CIC-Net telecommunications system in order to provide ready access to each institution's online public access catalog and to share resources speedily via facsimile transmission

Seek additional funding to complete development of the Gateway project and secure internal resources to install the system

- **Strengthening Collections (Including primary research resources)**

Ohio State would need to double its current annual rate of collection growth - over a 22 - year period - simply to attain the size of collection that the University of Michigan will have attained by that time (assuming that Michigan does not increase at all its current rate of acquisition).

- Increase staffing in order to provide the kinds and levels of services needed by OSU faculty and staff

OSU Libraries has 100 fewer FTE staff than the mean of the top ten

- Retain and attract highly qualified staff by improving salaries

The 1988/89 mean and median salaries for OSU librarians were \$32,676 and \$30,300, respectively, which merited a rank of 7th and 6th among Big Ten libraries; 7th and 7th among the top ten. OSU's position has slipped considerably since 1985/86, and improvement is required if we are to be competitive!

- Affirmative Action

Four librarians from underrepresented minorities have been hired in the last 14 months (6/1/88-7/31/89), and we have a committee working on strategies to attract additional hires. It is expected that the minority intern and minority fellowship holders will be highly potential candidates for regular appointments.

- Preservation of Collections

A Preservation self study, completed in 1986, indicated that the paper in 21% of OSU collections is brittle, while 90% is highly acidic and will eventually become brittle. Small progress has been made in microform and in-kind replacement of brittle materials, and significant progress in mending and repair operations has been made. But the scale of problem bespeaks a need for massive treatment, both through replacement of volumes in a condition beyond reclamation and deacidification of paper to preclude inevitable embrittlement.

- Excessive Cash-Basis Budgeting

To meet the Libraries basic annual budget needs for student wages, specials (graduate associates), equipment; and operating costs now requires generation of ca. \$500,000 in cash supplied through programmed position vacancy credits, i.e., by deliberately holding positions open much longer than desirable.

- Integrate library strategic planning with college strategic planning

- Funding from the Private Sector

Little success has been achieved to date. The libraries have no natural constituency in what has been an essentially constituency-based capital campaign. A national advisory council has been formed to advise/assist in fund-raising; a program is being developed to solicit emeritus faculty; and it is hoped that several major donor prospects will be assigned to the Libraries for cultivation.

APPENDIX XXIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
October 20, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees November 3, 1989  
(See page 379)



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
October 20, 1989**

**Endowment Composition**

		Percent of Equity and Fixed Income Portfolio		Percent of Equity and Fixed Income Portfolio
	06-30-89		10-20-89	
<b>Equities:</b>				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 37,490,553	14.22%
R. Meeder	-0-	-0-	13,949,480 (1)	5.29
Neuberger & Berman	13,552,018	5.47	14,383,789	5.46
Nicholas-Applegate	11,475,663	4.63	13,658,576	5.18
OSU Managed	80,168,113	32.35	30,720,666	11.66
Siebel	32,173,227	12.98	34,565,711	13.12
Wells Fargo EAFE	-0-	-0-	10,000,000 (2)	3.79
Wells Fargo S&P 500	-0-	-0-	28,677,608 (3)	10.88
<b>Total Equities</b>	<b>\$171,998,341</b>	<b>69.41%</b>	<b>\$183,446,383</b>	<b>69.60%</b>
<b>Fixed Income:</b>				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 23,921,037	9.08%
Cambridge	951,048	0.38	952,715	0.36
Duff & Phelps	10,243,208	4.13	10,288,994	3.90
WR Lazard	-0-	-0-	10,121,962 (4)	3.84
OSU - GNMA	10,144,887	4.10	10,143,133	3.85
OSU Managed	6,465,211	2.61	465,607	0.18
STW Fixed Income	24,150,270	9.75	24,216,126	9.19
<b>Total Fixed Income</b>	<b>\$ 75,796,204</b>	<b>30.59%</b>	<b>\$ 80,109,574</b>	<b>30.40%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$247,794,545</b>	<b>100.00%</b>	<b>\$263,555,957</b>	<b>100.00%</b>
<b>Real Estate</b>	<b>\$ 39,503,844</b>		<b>\$ 39,702,886</b>	
<b>Total Portfolio</b>	<b>\$287,298,389</b>		<b>\$303,258,843</b>	

(1) R. Meeder began as advisor on August 8, 1989 with \$15,000,000.

(2) Wells Fargo EAFE began as advisor on October 2, 1989 with \$10,000,000.

(3) Wells Fargo S&P 500 began as advisor on October 6, 1989 with \$30,000,000.

(4) WR Lazard began as advisor on August 8, 1989 with \$10,000,000.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value October '88 to October '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Chicago Corp.	3.24% (1)	18.37%	21.61%
R. Meeder	0.40 (2)	(7.00)	(6.60) (13)
Neuberger & Berman	2.82	19.55	22.37
Nicholas-Applegate	1.51 (3)	29.76	31.27
OSU Managed	5.66 (4)	13.66	19.32
Siebel	5.13 (5)	20.92	26.05
Wells Fargo EAFE	0.08	0.00	0.08 (14)
Wells Fargo S&P 500	0.14	(4.41)	(4.27) (15)
Standard & Poor's Index	3.93	22.39	26.32
<b>Real Estate:</b>	3.85%	8.42%	12.27%
<b>Fixed Income:</b>			
Boatmen's Trust	8.05% (6)	10.36%	18.41%
Cambridge	8.34 (7)	2.37	10.71
Duff & Phelps	8.13 (8)	2.96	11.09
WR Lazard	1.70 (9)	1.22	2.92 (13)
OSU - GNMA	9.81 (10)	1.35	11.16
OSU Managed	9.20 (11)	(0.43)	8.77
STW Fixed Income	8.96 (12)	8.12	17.08
Merrill Lynch Corporate/ Government Master	8.67	3.91	12.58
Shearson Lehman Hutton Government/ Corporate Index	9.30	2.02	11.32

- (1) 0.0% of Chicago Corp. portfolio is made up of cash & cash equivalents.
- (2) 0.3% of R. Meeder portfolio is made up of cash & cash equivalents earning 7.9%.
- (3) 2.8% of Nicholas-Applegate portfolio is made up of cash & cash equivalents earning 7.9%.
- (4) 1.1% of OSU Managed portfolio is made up of cash & cash equivalents earning 8.7%.
- (5) 46.9% of Siebel portfolio is made up of cash & cash equivalents earning 8.6%.
- (6) 4.2% of Boatmen's Trust portfolio is made up of cash & cash equivalents earning 8.6%.
- (7) 1.4% of Cambridge portfolio is made up of cash & cash equivalents earning 7.9%.
- (8) 1.4% of Duff & Phelps portfolio is made up of cash & cash equivalents earning 7.9%.
- (9) 2.1% of WR Lazard portfolio is made up of cash & cash equivalents earning 7.9%.
- (10) 1.1% of OSU-GNMA portfolio is made up of cash & cash equivalents earning 7.9%.
- (11) 0.0% of OSU Managed portfolio is made up of cash & cash equivalents.
- (12) 0.3% of STW Fixed Income portfolio is made up of cash & cash equivalents earning 7.9%.
- (13) Reflects return from initial allocation (August 8, 1989) only.
- (14) Reflects return from initial allocation (October 2, 1989) only.
- (15) Reflects return from initial allocation (October 6, 1989) only.
- (16) Endowment Fund Income through October 31, 1989, totaled approximately \$5,011,000.
- (17) Income from University Cash Investments through October 31, 1989, totaled approximately \$4,897,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>10-20-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$166,540,657	54.92%
Principal Additions	8,521,375	Fixed Income	78,562,905	25.90
Principal Withdrawals	(80,000)	Real Estate	39,600,000	13.06
Change in Market Value	<u>7,519,079</u>	Cash	<u>18,555,281</u>	<u>6.12</u>
Current Market Value	<u>\$303,258,843</u>	Total Portfolio	<u>\$303,258,843</u>	<u>100.00%</u>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
1,000	Consolidated Papers, Inc.	Chicago	40.0000	\$ 40,000.00	\$ 1,000.00
3,600	Dun & Bradstreet Corp.	"	55.2500	199,134.00	6,264.00
2,500	E-Systems, Inc.	"	33.4930	83,895.00	1,250.00
2,900	Gerber Scientific, Inc.	"	17.9390	52,211.60	348.00
4,100	Hewlett Packard, Inc.	"	51.3750	210,904.00	1,722.00
2,200	Luby's Cafeterias, Inc.	"	24.0000	52,943.00	1,232.00
3,500	NCR Corp.	"	59.8040	209,541.50	4,620.00
5,100	RPM, Inc.	"	19.5000	99,450.00	3,162.00
1,500	Banc One Corp.	Nicholas- Applegate	34.1250	51,277.50	1,560.00
4,600	Boeing Co.	"	58.1563	267,794.98	5,520.00
11,000	Chemical Waste Management, Inc.	"	23.3750	257,785.00	1,320.00
1,000	Dayton Hudson Corp.	"	62.1250	62,185.00	1,120.00
1,300	Flight Safety International, Inc.	"	42.1250	54,840.50	208.00
2,600	Foster Wheeler, Inc.	"	20.0000	52,156.00	1,144.00
9,000	Legent Corp.	"	30.2245	272,104.50	0.00
2,500	Microsoft Corp.	"	63.1679	157,919.70	0.00
2,500	Tandem Computers, Inc.	"	23.6250	59,212.50	0.00
1,500	Telephone & Data Systems, Inc.	"	40.0000	60,090.00	390.00
600	Chemical Bank of New York Corp.*	OSU	40.5625	24,337.50	1,632.00
26,500	Computer Associates International, Inc.	Siebel	15.9408	424,162.00	0.00
30,400	Enron Oil & Gas Corp.	"	19.6565	599,426.00	0.00
22,000	Hewlett Packard, Inc.	"	50.1110	1,103,982.00	9,240.00
10,000	Primerica Corp.	"	26.0200	<u>260,900.00</u>	<u>2,800.00</u>
				<u>\$4,656,252.28</u>	<u>\$44,532.00</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
800	Disney (Walt) Co.	Chicago	132.2500	\$ 105,744.47	\$ 61,077.27
2,800	Dun & Bradstreet Corp.	"	55.6250	155,562.80	63,740.92
300	Newell Corp.	"	46.5000	13,930.03	9,211.19
2,000	Philip Morris Companies, Inc.	"	44.7500	89,367.01	66,207.94
7,500	Limited, Inc.	Nicholas- Applegate	36.1803	270,893.09	66,451.89
1,400	Neiman Marcus Group, Inc.	"	21.2500	29,665.00	6,129.31
7,500	Rubbermaid, Inc.	"	33.1628	248,262.70	30,962.10
8,500	Super Valu-Stores, Inc.	"	26.1109	221,425.19	(31,420.11)
5,200	Walgreen Co.	"	43.1680	224,154.30	(5,186.50)
8,500	Williams Companies, Inc.	"	39.5000	335,228.80	71,047.30
60	Duke Power Co.*	OSU	51.6250	3,078.19	10.69
1,900	Webster Industries*	"	29.0000	55,100.00	(7,480.40)
1,900	AMR Corp.	Siebel	102.9410	195,448.38	105,397.37
4,100	Federal National Mortgage Assoc.	"	129.0110	<u>528,640.46</u>	<u>402,964.80</u>
				<u>\$2,476,500.42</u>	<u>\$839,113.77</u>

\* Gift.



The Ohio State University

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
500,000	U.S. Treasury Bond 7.500% 11/15/16	Boatmen's	8.2722	8.3749	90.6650	\$ 453,325.00
3,610,000	U.S. Treasury Bond 0.000% 11/15/03	"	0.000	8.5128	30.7180	1,108,919.80
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	8.1581	8.1601	99.5938	921,242.19
1,000,000	California State G.O. 6.750% 10/01/04	SIW	6.7663	6.7755	99.7590	997,590.00
1,000,000	Triborough Bridge NY-Municipal 7.125% 01/01/19	"	7.2611	7.2794	98.1250	981,250.00
550,000	U.S. Treasury Bond 7.250% 05/15/16	"	7.9931	8.1066	90.7031	<u>498,867.19</u>
						<u>\$4,961,194.18</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
3,680,000	U.S. Treasury Bond 0.000% 05/15/04	Boatmen's	30.1750	\$1,110,440.00	\$143,152.00
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	99.6562	921,820.31	(2,601.57)
600,000	U.S. Treasury Bond 10.375% 11/15/12	STW	120.2656	721,593.75	57,559.54
1,700,000	U.S. Treasury Bond 7.250% 05/15/16	"	90.7812	<u>1,543,281.25</u>	<u>(15,738.28)</u>
				<u>\$4,297,135.31</u>	<u>\$182,371.69</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	7.971	1962	\$ 435,204	\$ 1,550,000	06/89
Building and 5.56 acres at 1100 Kinnear Road	3.74	1984	825,000	2,650,000	06/89
Building and 2.633 acres at 1900 Kenny Road	21.84	1961	659,930	1,250,000	06/89
Building and 6.41 acres at 1960 Kenny Road	17.36	1971	1,320,693	2,500,000	06/89
Building and 6.328 acres at 1991 Kenny Road	8.81	1968	170,000	696,000	06/89
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hanger at Don Scott Field (Loan)	.00	1973	29,332 (1)	29,332	N/A
Hanger addition at Don Scott Field (Loan)	10.00	1978	73,554 (1)	73,554	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	770,000	06/89
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	2.94	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Elterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,353,827</u>	<u>\$39,702,886</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

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Phone 614-292-6261

**MEMORANDUM**

Subject: Proxy Solicitations  
Date: October 31, 1989  
From: James L. Nichols, Treasurer *James L. Nichols*  
To: Board of Trustees, The Ohio State University

During the month of October 1989, the University voted twenty-three proxies.

Management proposals were as follows:

- 1) Election of the Board of Directors;
- 2) Amendment to fix the number of Directors;
- 3) Ratification of independent auditors;
- 4) Approval of the issuance of common stock for the purchase of another company;
- 5) Amendment to increase the authorized shares of common stock;
- 6) Amendment to increase authorized shares of common stock for an employee stock option program;
- 7) Approval to establish classes of directors;
- 8) Amendment requiring the written approval of all shareholders prior to any shareholder action taken without a meeting;
- 9) Approval to establish a range for the size of the Board of Directors and to empower the Board to establish said number;
- 10) Require that two-thirds of all shareholders approve prior to any special shareholder meetings;
- 11) Require that two-thirds of all shareholders approve prior to certain changes to the by-laws;
- 12) Approval of certain amendments to enable the by-laws to conform to Georgia Corporate Code;
- 13) Approval of a 1989 Executive Stock incentive plan;
- 14) Approval to merge and issue preferred stock in accordance to the merger;
- 15) Amendment to establish voting rights to a special class of stock;
- 16) Approval to grant specified purchase rights on preferred stock;

- 17) Approval to return preferred stock to "special stock" status and show the stock as authorized but not issued;
- 18) Adoption of a 1989 long-term incentive plan;
- 19) Approval for employees, of a company recently acquired, to participate immediately in the Corporate Stock Purchase plan;
- 20) Amendment to increase authorized shares for the incentive Stock Option Plan;
- 21) Ratification of a non-employee director stock option plan.

Shareholder proposals were as follows:

- 1) Re-affirm the corporation's political non-partisanship;
- 2) Establish cumulative voting for the Board of Directors;
- 3) Require annual election of all Directors;
- 4) Change the required approval vote from eighty percent to two-thirds.

The University voted for all Management proposals and against the shareholder proposals. Furthermore, Management opposed all shareholder proposals.

The twenty-three corporations were:

- 1) Archer-Daniel Midland Company
- 2) Automatic Data Processing Incorporated
- 3) Bristol-Myers Company
- 4) Bruno's Incorporated
- 5) Campbell Soup Company
- 6) The Clorox Company
- 7) Farm Credit Services of mid-America
- 8) First Mississippi Corporation
- 9) Flowers Industries, Incorporated
- 10) Jostens Incorporated
- 11) Meredith Corporation
- 12) MNC Financial, Incorporated
- 13) Morton International, Incorporated
- 14) National Semiconductor Corporation
- 15) Oracle Systems Corporation
- 16) Policy Management Systems Corporation
- 17) Quaker Oats Company
- 18) Sara Lee Corporation

- 19) Seagate Technology, Incorporated
- 20) SCI Systems, Incorporated
- 21) Scientific-Atlanta, Incorporated
- 22) Sysco Corporation
- 23) Thiokol Corporation

APPENDIX XXV

THE AGRICULTURAL TECHNICAL INSTITUTE

Presented to the Agricultural Affairs Committee  
November 3, 1989  
(See page 395)

AGRICULTURAL AFFAIRS COMMITTEE  
BOARD OF TRUSTEES  
NOVEMBER 3, 1989  
THE AGRICULTURAL TECHNICAL INSTITUTE

The Agricultural Technical Institute began operations Autumn Quarter 1972 with 199 students enrolled in eight technologies within the Associate of Applied Science Degree. The first graduating class was in 1974 and today there are over 3,000 Associate Degree graduates, most of whom are Ohio residents.

The Institute receives line item funding from the Ohio Legislature as one of Ohio's two-year technical colleges. The Board of Trustees for ATI is the OSU Board of Trustees and the Institute operates administratively as a school within the College of Agriculture. Currently there are 130 employees: 39 regular faculty, 16 specials, (part-time/full-time), 72 staff including police, secretaries and technicians, and 3 principal administrators.

Last year (1988) the Institute enrolled 685 students generating 608 FTE and served a total of 1,300 people including non-credit enrollments. This year (1989) enrollment is 707 students generating 639 FTE; and, with non-credit enrollments ATI will serve over 1,500 people. We are projecting a 5% enrollment increase for 1990 and another 5% enrollment increase for 1991.

The Institute began operations in OARDC facilities in 1972 and today has three main buildings on a 50 acre central campus plus the 1,800 acre Apple Creek Farm and leased facilities for the horse technology program at the Wayne County Fairgrounds. By comparison with similar institutions, ATI has high quality laboratories and classroom facilities. The Institute has the top teaching dairy laboratory at the applied level in the country and a substantial land laboratory at the Apple Creek Farm. The first budget of the Institute in 1972 was approximately \$200,000; this year (1989) the budget will exceed \$6.5 million dollars. Twenty-three percent of the income for the current budget will be derived from grants, contracts and income other than student fees and state subsidies.

In developing the applied curriculum ATI has been closely involved with industry. Successful industry internship is a graduation requirement necessitating regular faculty visits across the state to work sites and with industry leaders. The placement of graduates, according to the annual published report of the Ohio Board of Regents, is at the top in the state for institutions in Ohio. The national trend and the state's agenda for two-year institutions for workforce education is a natural undertaking for ATI.



The teaching skill of the ATI faculty is demonstrated as they successfully address the diverse populations of WeekEnd College, state prisons, evening instruction, workforce education (Rubbermaid, Rexroth, City of Wooster, Nursery Association, etc.), non-credit and short-term workshops, international education and collaborative education with high schools, corporations, trade associations and other institutions of higher education. Their skill is further evident in the success of transfer students who, by the College of Agriculture's records, perform equally as well as students beginning the baccalaureate degree at Columbus. For several years, ATI has been the single largest source of transfer students into the College of Agriculture. The Institute represents perhaps one of the College's most valuable resources in reaching out to minority students and others interested in agriculture.

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**APPENDIX XXVI**

**THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET - 1ST QUARTER REPORT**

**Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees November 3, 1989  
(See page 395)**

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET  
1ST QUARTER REPORT

Summary of Proposed Resources  
(In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$452.39	\$452.39	\$ .00	.0%
Earnings Operations	346.34	346.34	.00	.0%
Restricted Funds	220.07	220.07	.00	.0%
Total Central Campus	\$1,018.80	\$1,018.80	\$ .00	.0%
Regional Campuses	27.65	27.65	.00	.0%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,080.29	\$1,080.29	\$ .00	.0%

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET  
1ST QUARTER REPORT

Summary of Proposed Uses  
(In Millions of Dollars)

	Budgeted 1989-90	Estimated 1989-90	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$452.39	\$452.39	\$ .00	.0%
Earnings Operations	346.23	346.23	.00	.0%
Restricted Funds	220.07	220.07	.00	.0%
Total Central Campus	\$1,018.69	\$1,018.69	\$ .00	.0%
Regional Campuses	27.42	27.42	.00	.0%
OARDC	33.84	33.84	.00	.0%
Grand Totals	\$1,079.95	\$1,079.95	\$ .00	.0%

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET  
1ST QUARTER REPORT

All Funds Resources Summary  
(In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
Central Campus					
State Appropriations	\$265.13	\$ .00	\$39.51	\$304.64	\$304.64
Student Fees	153.69	5.00	.00	158.69	158.69
Other Resources					
Federal Grants and Contracts	17.28	.00	85.60	102.88	102.88
Ohio Grants and Contracts	.37	.00	15.16	15.53	15.53
Local Grants and Contracts	.74	.00	13.10	13.84	13.84
Private Gifts and Grants	3.96	.00	57.90	61.86	61.86
Endowment Income	1.55	.00	8.80	10.35	10.35
Department and University Services	.40	28.37	.00	28.77	28.77
Auxiliary Sales & Charges	.02	86.23	.00	86.25	86.25
Hospital Sales & Services	.00	222.45	.00	222.45	222.45
Other Sources	9.25	4.29	.00	13.54	13.54
Total Other Resources	\$33.57	\$341.34	\$180.56	\$555.47	\$555.47
Total Central Campus	\$452.39	\$346.34	\$220.07	\$1,018.80	\$1,018.80
Regional Campuses					
State Appropriations	13.28	.00	.02	13.30	13.30
Student Fees	9.64	.13	.00	9.77	9.77
Other Resources	.62	1.61	2.35	4.58	4.58
Total Regional Campuses	\$23.54	\$1.74	\$2.37	\$27.65	\$27.65
OARDC					
State Appropriations	.00	.00	21.70	21.70	21.70
Federal	.00	.00	7.60	7.60	7.60
All Other	.00	1.81	2.73	4.54	4.54
Total OARDC	\$ .00	\$1.81	\$32.03	\$33.84	\$33.84
Total University					
State Appropriations	278.41	.00	61.23	339.64	339.64
Student Fees	163.33	5.13	.00	168.46	168.46
Other Resources	34.19	344.76	193.24	572.19	572.19
Total University	\$475.93	\$349.89	\$254.47	\$1,080.29	\$1,080.29

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET  
1ST QUARTER REPORT

All Funds Uses Summary  
(In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1989-90	Budgeted 1989-90
<b>Central Campus</b>					
Educational & General	\$451.60	\$33.37	\$204.18	\$689.15	\$689.15
Auxiliary Enterprises					
Residence & Dining Halls	.00	38.65	.00	38.65	38.65
Intercollegiate Athletics	.00	17.93	4.00	21.93	21.93
Other Auxiliaries	.79	31.23	.00	32.02	32.02
Total Auxiliaries	\$ .79	\$87.81	\$4.00	\$92.60	\$92.60
University Hospitals	.00	225.05	11.89	236.94	236.94
Total Central Campus	\$452.39	\$346.23	\$220.07	\$1,018.69	\$1,018.69
<b>Regional Campuses</b>					
Agricultural Technical Institute	5.03	.78	.76	6.57	6.57
Lima Campus	5.00	.08	.41	5.49	5.49
Mansfield Campus	4.49	.05	.40	4.94	4.94
Marion Campus	4.25	.03	.46	4.74	4.74
Newark Campus	4.77	.57	.34	5.68	5.68
Total Regional Campuses	\$23.54	\$1.51	\$2.37	\$27.42	\$27.42
OARDC	.00	1.81	32.03	33.84	33.84
<b>Total Uses</b>	<b>\$475.93</b>	<b>\$349.55</b>	<b>\$254.47</b>	<b>\$1,079.95</b>	<b>\$1,079.95</b>

THE OHIO STATE UNIVERSITY  
1989-90 CURRENT FUNDS BUDGET  
1ST QUARTER REPORT

Distribution of 1989-90 Resources  
Central Campus, Regional Campuses & OARDC  
(In Millions of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$339.64	31.4%	\$278.41	58.5%
Federal Grants & Contracts	110.48	10.2%	17.28	3.6%
Other Government Sources	29.37	2.7%	1.11	.2%
Student Fees				
Instructional (1)	163.33	15.1%	163.33	34.3%
Non-Credit Instruction	5.13	.5%	.00	.0%
Hospitals Sales / Services	222.45	20.6%	.00	.0%
Other Sales / Services (2)	115.02	10.6%	.42	.1%
Private Gifts & Grants	61.86	5.7%	3.96	.8%
Endowment	10.35	1.0%	1.55	.3%
Other Sources (3)	22.66	2.1%	9.87	2.1%
Total	\$1,080.29	100.0%	\$475.93	100.0%

- (1) Includes instructional, general, non-resident, and misc. other fees.
- (2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
- (3) Includes temporary investments, prior years' earnings, rental income, etc.
- (4) Excludes all earnings and restricted funds.

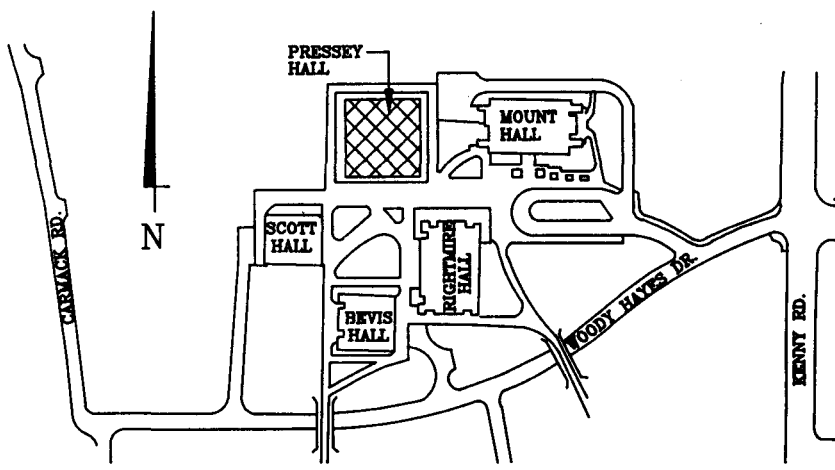


**APPENDIX XXVII**

**PRESSEY HALL - OFFICE OF CAREER DEVELOPMENT**

**Adopted by the Board of Trustees November 3, 1989  
(See page 412)**

PRESSEY HALL REMODELING FOR  
OFFICE OF CAREER DEVELOPMENT



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989

**APPENDIX XXVIII**

**LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION**

**Adopted by the Board of Trustees November 3, 1989  
(See page 413)**

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

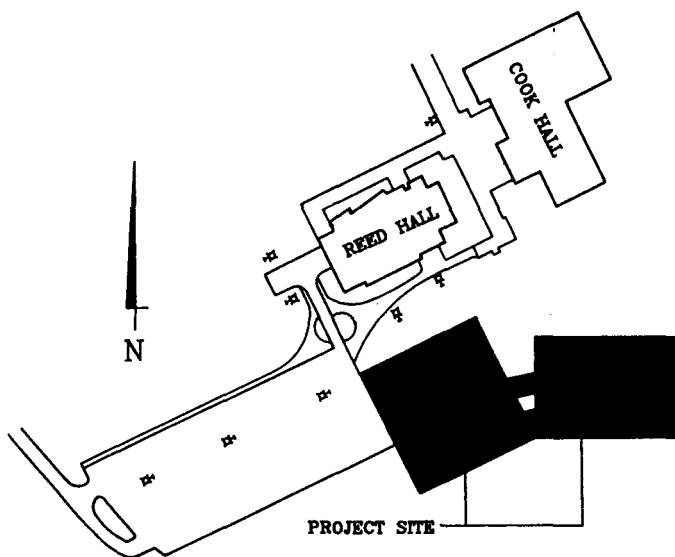
LIMA REGIONAL CAMPUS - REED HALL PARKING LOT ADDITION

Tabulation of Bids

Bids received by The Ohio State University on August 31, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "\*".

<u>General Contract</u>	<u>Estimate</u>	<u>E. J. Meyer *</u>	<u>Degen Excavating</u>
Base Bid	\$142,794.00	\$125,069.30	\$125,675.70
Alt. G-1 (2" asphalt over gravel)	\$55,437.50	30,764.60	32,345.70
Total General Contract	\$198,231.50	\$155,833.90	\$158,021.40
Alternates Not Taken:			
Alt. G-2 (Add 1" overlay)	\$20,000.00	\$20,265.00	\$21,282.40

LIMA REGIONAL CAMPUS  
REED HALL PARKING  
LOT ADDITION



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989

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**APPENDIX XXVIV**

**MASONRY IMPROVEMENTS - BOTANY AND ZOOLOGY BUILDING  
MASONRY IMPROVEMENTS - COCKINS HALL  
STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB  
PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER  
FACULTY CLUB IMPROVEMENTS**

**Adopted by the Board of Trustees November 3, 1989  
(See page 414)**

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

MASONRY IMPROVEMENTS - BOTANY & ZOOLOGY BUILDING

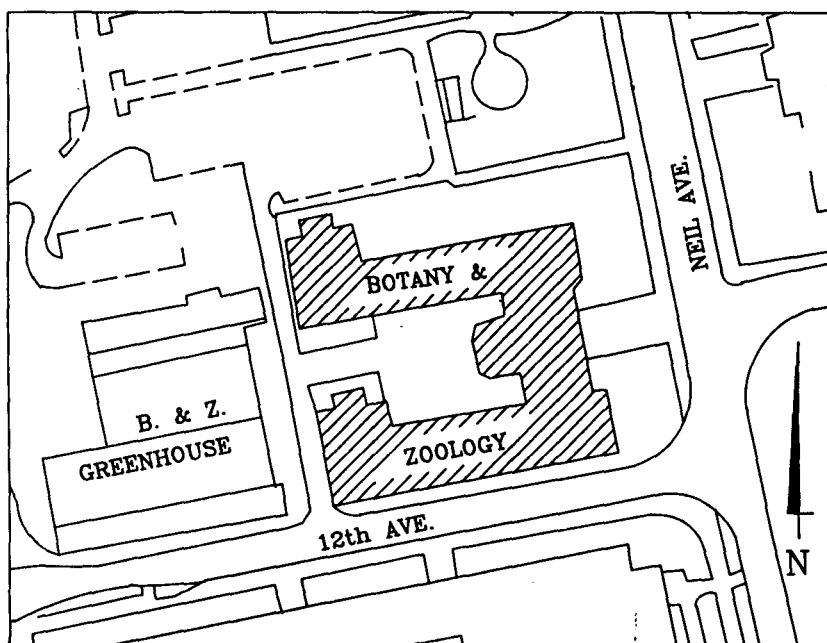
Tabulation of Bids

Bids received by The Ohio State University on July 18, 1989. Bids opened by Tamara Bell and tabulated by Ray Vanscik. Awards indicated with an "\*\*".

<u>General Contract</u>	<u>Estimate</u>	<u>H. K. Phillips *</u>	<u>Trisco System</u>	<u>Western Waterproof</u>
Base Bid	\$194,400.00	\$189,675.00	\$228,726.00	\$237,686.00
Total General Contract	\$194,400.00	\$189,675.00	\$228,726.00	\$237,686.00



MASONRY IMPROVEMENTS  
BOTONY AND ZOOLOGY BUILDING



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

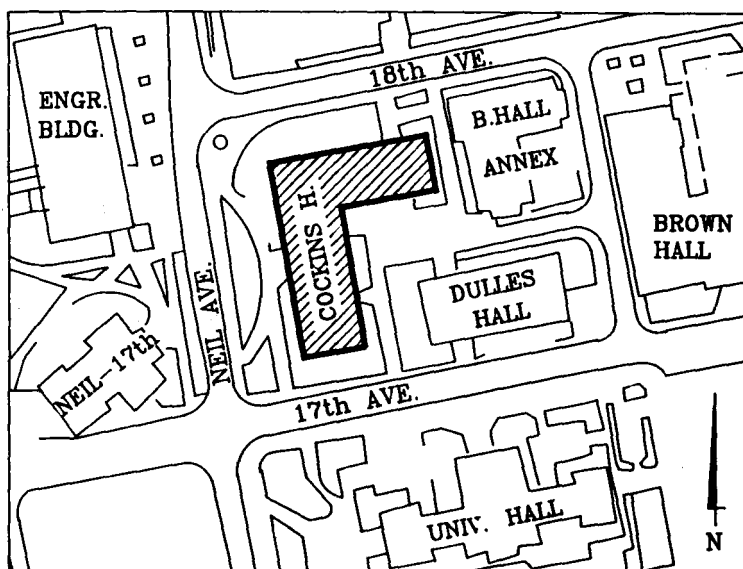
MASONRY IMPROVEMENTS - COCKINS HALL

Tabulation of Bids

Bids received by The Ohio State University on July 18, 1989. Bids opened by Tamara Bell and tabulated by Ray Vanscik. Awards indicated with an "a".

<u>General Contract</u>	<u>Estimate</u>	<u>Trisco *</u>	<u>General Maint.</u>
Base Bid	\$48,000.00	\$36,582.00	\$39,998.00
Total General Contract	\$48,000.00	\$36,582.00	\$39,998.00

# MASONRY IMPROVEMENTS COCKINS HALL



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

STARLING-LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB.

Tabulation of Bids

Bids received by The Ohio State University on October 3, 1989. Bids opened by Tamara Bell and tabulated by Ray Vanscik. Awards indicated with an "\*".

<u>General Contract</u>	<u>Estimate</u>	<u>Williamson *</u>	<u>Navarro</u>	<u>Cargile</u>	<u>McClellan</u>
Base Bid	\$133,100.00	\$87,600.00	\$88,360.00	\$97,333.00	\$99,736.00
Total General Contract	\$133,100.00	\$87,600.00	\$88,360.00	\$97,333.00	\$99,736.00

General Contract (Cont.)	<u>Rico</u>
Base Bid	\$119,876.00
Total General Contract	\$119,876.00

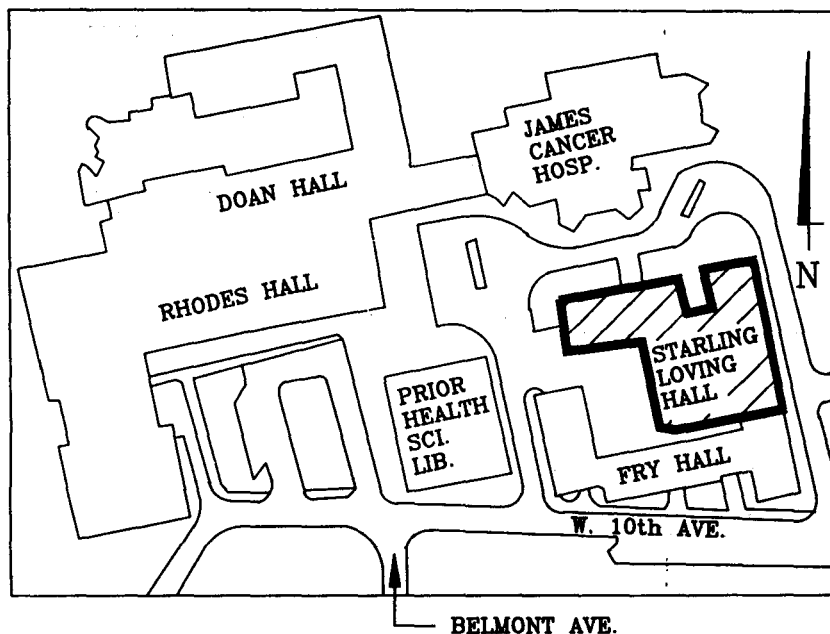
<u>Plumbing Contract</u>	<u>Estimate</u>	<u>McClellan *</u>	<u>Lincoln Mandeville</u>	<u>Ro-Dan</u>	<u>Williamson</u>
Base Bid	\$55,900.00	\$32,393.00	\$43,769.00	\$47,000.00	\$48,730.00
Total Plumbing Contract	\$55,900.00	\$32,393.00	\$43,769.00	\$47,000.00	\$48,730.00

<u>HVAC Contract</u>	<u>Estimate</u>	<u>Williamson *</u>	<u>Lincoln Mandeville</u>	<u>McClellan</u>	<u>Ro-Dan</u>
Base Bid	\$61,200.00	\$95,200.00	\$98,800.00	\$110,516.00	\$116,000.00
Total HVAC Contract	\$61,200.00	\$95,200.00	\$98,800.00	\$110,516.00	\$116,000.00

HVAC Contract (Cont.)	<u>Edmonds</u>
Base Bid	\$123,000.00
Total HVAC Contract	\$123,000.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Advantage *</u>
Base Bid	\$48,500.00	\$53,200.00
Total Electric Contract	\$48,500.00	\$53,200.00

STARLING - LOVING HALL  
PATHOLOGY PHOTO STUDIO  
AND MICROSCOPY LAB



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1969

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER

Tabulation of Bids

Bids received by the State of Ohio, Division of Public Works on August 30, 1989. Bids opened by Elizabeth Poster and tabulated by Ivonne Tabor. Awards indicated with an "A".

<u>General Contract</u>	<u>Estimate</u>	<u>Sargents *</u>	<u>M Constr.</u>	<u>Vesta</u>	<u>King</u>
Base Bid	\$2,205,400.00	\$2,133,400.00	\$2,173,000.00	\$2,273,000.00	\$2,377,200.00
Total General Contract	\$2,205,400.00	\$2,133,400.00	\$2,173,000.00	\$2,273,000.00	\$2,377,200.00

Alternates not taken:

Alt. G-1 (Greenhouse Bay)	\$53,564.00	\$28,570.00	\$31,900.00	\$26,000.00	\$36,100.00
Alt. G-2 (Entrance Paving)	31,400.00	98,800.00	92,200.00	85,000.00	85,800.00
Alt. G-4 (Bldg. Addition)	67,242.00	50,960.00	47,200.00	51,300.00	56,500.00
Alt. G-5 (Gravel Paving)	6,910.00	28,600.00	27,400.00	9,500.00	13,200.00
Alt. G-6 (Storage Bldg.)	43,630.00	51,200.00	42,700.00	40,000.00	53,100.00
Alt. G-7 (Greenhouse Bay)	53,564.00	28,570.00	31,900.00	26,000.00	36,100.00

General Contract (Cont.)      Debcon

Base Bid	\$2,887,700.00
Total General Contract	\$2,887,700.00

Alternates not taken:

Alt. G-1 (Greenhouse Bay)	\$35,000.00
Alt. G-2 (Entrance Paving)	100,000.00
Alt. G-4 (Bldg. Addition)	87,000.00
Alt. G-5 (Gravel Paving)	11,000.00
Alt. G-6 (Storage Bldg.)	150,000.00
Alt. G-7 (Greenhouse Bay)	35,000.00

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

Tabulation of Bids

<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Stockmeister *</u>	<u>Crosen</u>	<u>Radico</u>	<u>Mechanical Constr.</u>
Base Bid	\$172,200.00	\$295,694.00	\$297,787.00	\$302,200.00	\$302,985.00
Total Plumbing Contract	\$172,200.00	\$295,694.00	\$297,787.00	\$302,200.00	\$302,985.00

Alternates not taken:

Alt. P-1 (Greenhouse Bay)	\$2,460.00	\$3,944.00	\$3,421.00	\$3,700.00	\$3,461.00
Alt. P-4 (Building Addn.)	4,869.00	10,238.00	8,989.00	11,600.00	11,967.00
Alt. P-7 (Greenhouse Bay)	2,460.00	3,944.00	3,421.00	2,200.00	3,461.00

Plumbing Contract (Cont.) Grandview

Base Bid \$315,000.00

Total Plumbing Contract

Alternates not taken:

Alt. P-1 (Greenhouse Bay)	\$3,372.00
Alt. P-4 (Building Addn.)	9,520.00
Alt. P-7 (Greenhouse Bay)	3,300.00

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETOM AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

Tabulation of Bids

<u>HVAC Contract</u>	<u>Estimate</u>	<u>General *</u>	<u>Mechanical Constr.</u>	<u>Stockmeister</u>	<u>Radico</u>
Base Bid	\$246,900.00	\$357,280.00	\$369,995.00	\$381,950.00	\$384,400.00
Total HVAC Contract	\$246,900.00	\$357,280.00	\$369,995.00	\$381,950.00	\$384,400.00

Alternates not taken:

Alt. H-1 (Greenhouse Bay)	\$256.00	\$2,450.00	\$2,650.00	\$1,795.00	\$2,500.00
Alt. H-4 (Building Addn.)	8,200.00	6,000.00	4,395.00	8,500.00	8,000.00
Alt. H-7 (Greenhouse Bay)	256.00	750.00	775.00	820.00	850.00

<u>HVAC Contract (Cont.)</u>	<u>J. A. Guy</u>	<u>Farber</u>
Base Bid	\$400,000.00	\$407,000.00
Total HVAC Contract	\$400,000.00	\$407,000.00

Alternates not taken:

Alt. H-1 (Greenhouse Bay)	\$1,000.00	\$2,600.00
Alt. H-4 (Building Addn.)	7,000.00	8,100.00
Alt. H-7 (Greenhouse Bay)	1,000.00	800.00

<u>Electric Contract</u>	<u>Estimate</u>	<u>Reco *</u>	<u>Jarrell</u>	<u>M. Construction</u>	<u>S.O.S.</u>
Base Bid	\$223,200.00	\$199,900.00	\$231,935.00	\$234,000.00	\$289,970.00
Total Electric Contract	\$223,200.00	\$199,900.00	\$231,935.00	\$234,000.00	\$289,970.00

Alternates not taken:

Alt. E-1 (Greenhouse Bay)	\$2,450.00	\$2,100.00	\$2,893.00	\$1,346.00	\$1,017.00
Alt. E-4 (Building Addn.)	2,589.00	5,200.00	5,569.00	4,674.00	9,800.00
Alt. E-5 (Serv. to Barns)	5,895.00	3,550.00	3,680.00	3,982.00	4,680.00
Alt. E-6 (Storage Bldg.)	4,970.00	2,800.00	3,029.00	3,138.00	3,590.00
Alt. E-7 (Greenhouse Bay)	2,450.00	2,300.00	2,893.00	1,275.00	1,060.00



November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

PIKETON AGRICULTURE RESEARCH AND EXTENSION CENTER (CONT.)

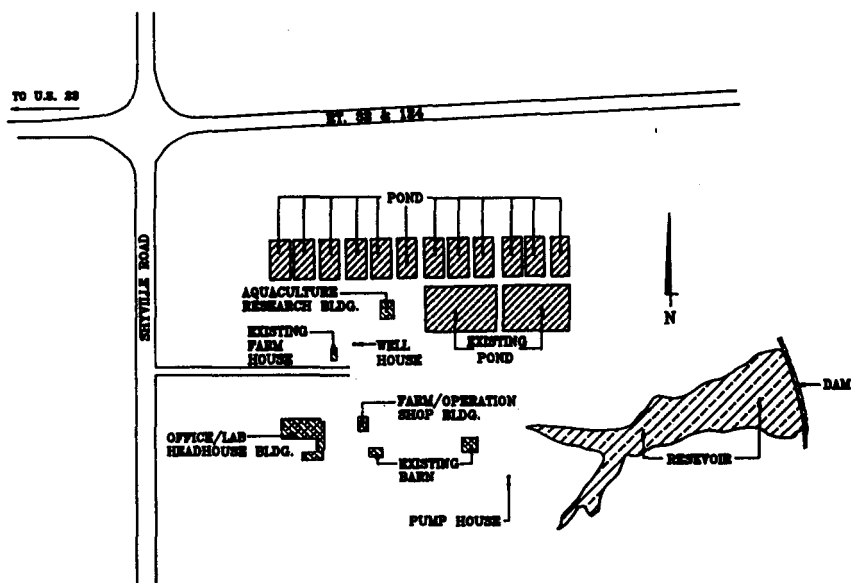
Tabulation of Bids

Electric Contract (Cont.) Westend  
Base Bid \$298,000.00  
Total Electric Contract \$298,000.00

Alternates not taken:

Alt. E-1 (Greenhouse Bay) \$900.00  
Alt. E-4 (Building Addn.) 5,300.00  
Alt. E-5 (Serv. to Barns) 6,700.00  
Alt. E-6 (Storage Bldg.) 6,200.00  
Alt. E-7 (Greenhouse Bay) 900.00

# PIKETON AGRICULTURAL RESEARCH AND EXTENSION CENTER



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989

November 3, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

FACULTY CLUB IMPROVEMENTS

Tabulation of Bids

Bids received by The Ohio State University on July 13 and September 12, 1989. Bids opened by Tamara Bell and tabulated by Raymond Vanscik. Awards indicated with an "\*\*".

<u>General Contract</u>	<u>Estimate</u>	<u>Cody Ziegler *</u>	<u>Cleveland</u>	<u>Peterson</u>	<u>Altman</u>
Base Bid	\$581,902.00	\$627,000.00	\$638,200.00	\$713,500.00	\$748,663.00
Alt. G-1 (A/C Upgrade)	20,155.00	26,700.00	35,500.00	28,500.00	27,551.00
Total General Contract	\$602,057.00	\$653,700.00	\$676,212.00	\$742,000.00	\$776,214.00

Alternates not taken:

Alt. G-2 (Lift)	\$14,000.00	\$27,000.00	\$16,340.00	\$22,000.00	\$23,283.00
Alt. G-3 (1st Fl. Offices)	26,132.00	19,000.00	29,600.00	39,000.00	24,358.00
Alt. G-4 (2nd Fl. Renov.)	62,889.00	63,700.00	48,300.00	59,000.00	59,015.00
Alt. G-5 (Member's Lounge)	7,204.00	9,700.00	3,850.00	6,100.00	5,631.00
Alt. G-7 (Roof Screening)	17,350.00	57,000.00	26,300.00	30,000.00	32,574.00

<u>General Contract (Cont.)</u>	<u>Gutknecht</u>	<u>Functional</u>
Base Bid	\$752,000.00	\$772,343.00
Alt. G-1 (A/C Upgrade)	31,000.00	31,588.00
Total General Contract	\$783,000.00	\$803,931.00

Alternates not taken:

Alt. G-2 (Lift)	\$22,000.00	\$20,000.00
Alt. G-3 (1st Fl. Offices)	30,000.00	21,000.00
Alt. G-4 (2nd Fl. Renov.)	57,000.00	60,600.00
Alt. G-5 (Member's Lounge)	7,000.00	5,600.00
Alt. G-7 (Roof Screening)	29,000.00	32,000.00

<u>Plumbing Contract</u>	<u>Estimate</u>	<u>Radico *</u>	<u>J. A. Croson</u>	<u>Marco</u>
Base Bid	\$277,000.00	\$254,800.00	\$263,889.00	\$269,000.00
Alt. P-1 (A/C Upgrade)	3,000.00	2,100.00	2,300.00	2,100.00
Total Plumbing Contract	\$280,000.00	\$256,900.00	\$266,189.00	\$271,100.00

November 3, 1989

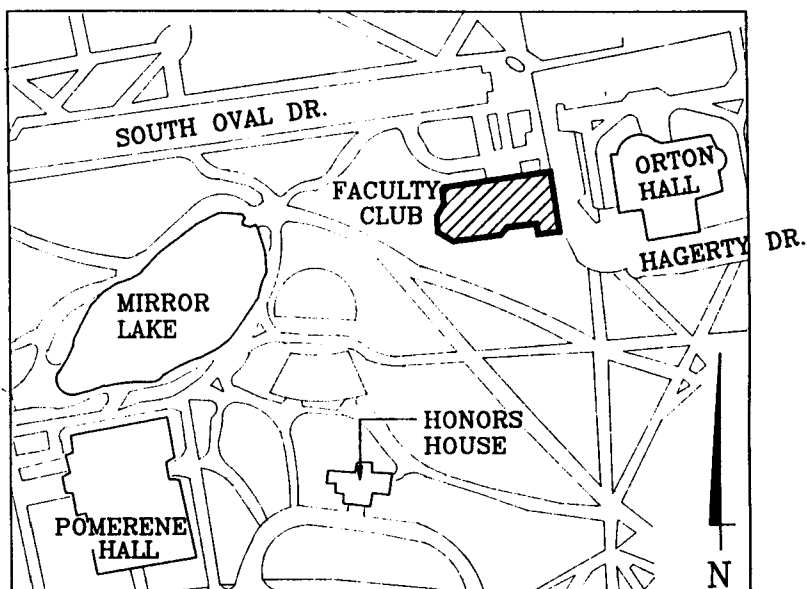
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

FACULTY CLUB IMPROVEMENTS (CONT)

Tabulation of Bids

<u>HVAC Contract</u>	<u>Estimate</u>	<u>Radico *</u>	<u>Farber</u>		
Base Bid	\$310,000.00	\$292,000.00	\$287,100.00		
Alt. H-1 (A/C Upgrade)	125,000.00	116,200.00	129,900.00		
Total HVAC Contract	\$435,000.00	\$408,200.00	\$417,000.00		
<u>Electric Contract</u>	<u>Estimate</u>	<u>Newco *</u>	<u>Claggett</u>	<u>Claypool</u>	<u>Electric Power</u>
Base Bid	\$198,480.00	\$203,000.00	\$207,400.00	\$200,350.00	\$280,600.00
Alt. E-1 (A/C Upgrade)	20,000.00	17,400.00	13,620.00	26,350.00	52,600.00
Total Electric Contract	\$218,480.00	\$220,400.00	\$221,020.00	\$226,700.00	\$333,200.00
Alternates not taken:					
Alt. E-2 (Lift)	\$500.00	\$1,400.00	\$1,200.00	\$1,350.00	\$2,020.00
Alt. E-3 (1st Fl. Offices)	8,500.00	11,270.00	16,040.00	11,350.00	18,800.00
Alt. E-4 (2nd Fl. Renov.)	10,600.00	9,775.00	11,200.00	9,000.00	13,850.00
Alt. E-5 (Member's Lounge)	1,000.00	2,540.00	2,620.00	1,850.00	2,730.00
Alt. E-6 (Club Room)	1,500.00	590.00	650.00	650.00	500.00
Alt. E-7 (Roof Screening)	500.00	.00	.00	1,150.00	350.00

# FACULTY CLUB IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989

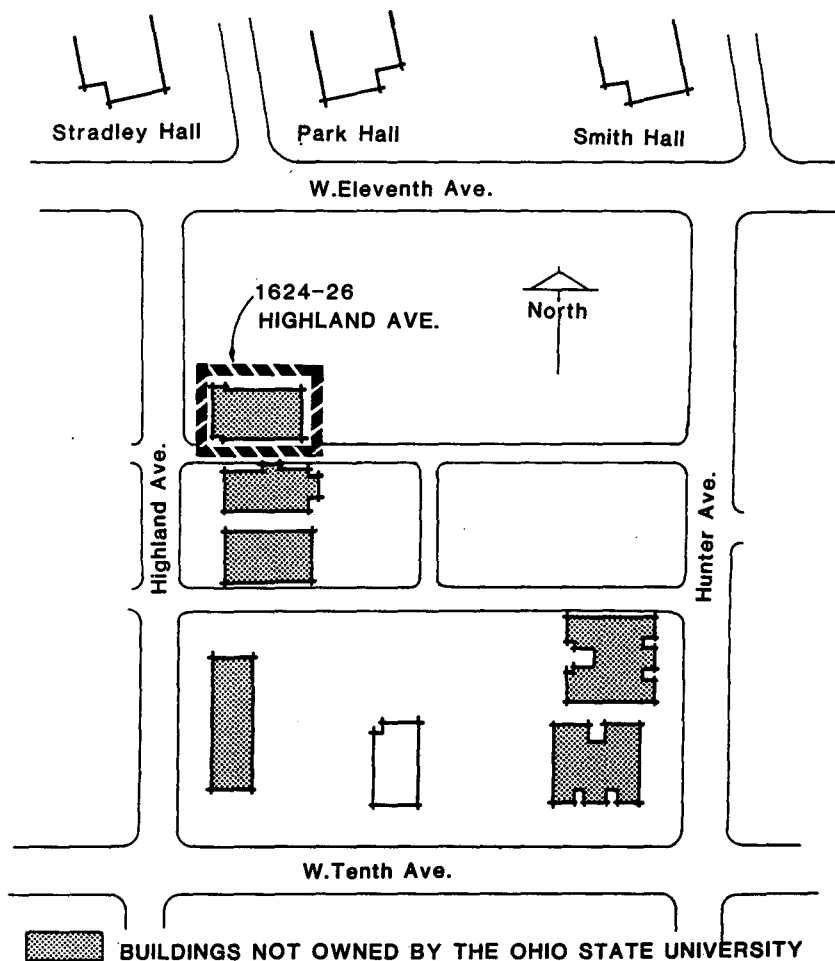
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**APPENDIX XXX**

**1624-26 HIGHLAND AVENUE**

**Adopted by the Board of Trustees November 3, 1989  
(See page 419)**

# Proposed Purchase of Property at -1624-26 Highland Avenue



OFFICE OF BUSINESS AND ADMINISTRATION  
NOVEMBER 3, 1989



**APPENDIX XXXI**

**EXECUTIVE SUMMARY  
J. LEONARD CAMERA CENTER MANAGEMENT CONTRACT**

**Adopted by the Board of Trustees November 3, 1989  
(See page 421)**

**J. LEONARD CAMERA CENTER  
MANAGEMENT CONTRACT**

Executive Summary

Recommendation

OSU Hospitals is recommending approval of a contract for the management of the J. Leonard Camera Center.

If also approved by The Industrial Commission of Ohio and the State Controlling Board, this could begin in January 1990.

Overview

- I. OSU Hospitals will Provide the Camera Center:
  - A. Financial Systems and Consultation
  - B. Information Systems Consultation
  - C. Management Team
- II. OSU Hospitals will Receive:
  - A. Management Team Salaries and Benefits
  - B. Additional 25% Management Support Fee
  - C. Use of One "Module" of Space for the Installation and Operation of Related Rehabilitation Programs
- III. Evaluation
  - A. OSU Receives:
    - Management Team Salaries & Benefits - "Pass Through"
    - 25% Management Support Fee - approximately \$75,000
    - Value of Space - \$144,000-\$105,000
  - B. OSU Provides:
    - Purchases and Consultation Time of \$120,000

**J. LEONARD CAMERA CENTER  
MANAGEMENT CONTRACT**

**Background**

The J. Leonard Camera Center is a \$45 million facility of the Industrial Commission of Ohio for the rehabilitation of industrially disabled workers. It was constructed in 1985 and has been operated at partial capacity since - in part due to problems of recruitment and retention of rehabilitation professionals and problems in management and administration.

The Ohio State University Hospitals began discussions with the Industrial Commission in March of 1988 about a possible joint relationship and involvement in the facility. The Commission issued an RFP in June of 1988 requesting bids to include "management, supervision, administration, accounting and reporting, and the operations of all rehabilitation programs and ancillary functions" of the Center. The Hospitals responded to this RFP by the August 1988 deadline and was selected to begin negotiations with the Commission. These negotiations, though protracted, have been positive and have evolved through several different stages of investigation and discussion to produce a final draft contract with the following major points:

**I. OSU will provide the Camera Center the following:**

**A. Financial System**

1. The establishment of a system of cost centers.
2. A computerized "Budget Manager Software System."
3. Regular monthly financial reports of budget, actual, and comparison figures for all expenditures and revenues.
4. Consultation and support from OSU Hospitals Chief Financial Officer and staff.
5. Generation of a consultation report within 120 days.

**B. Information System**

1. Assistance and support of their existing management information systems on their hardware and computer network.
2. Assistance in improving their existing patient tracking, productivity, and scheduling systems.
3. Planning for the acquisition of and oversight of the installation of a new computer system, if needed.
4. Development of a long range strategic information systems plan.
5. Consultation and support from OSU Hospitals Chief Information Officer and staff.
6. Generation of a consultation report within 120 days.

C. Management Team

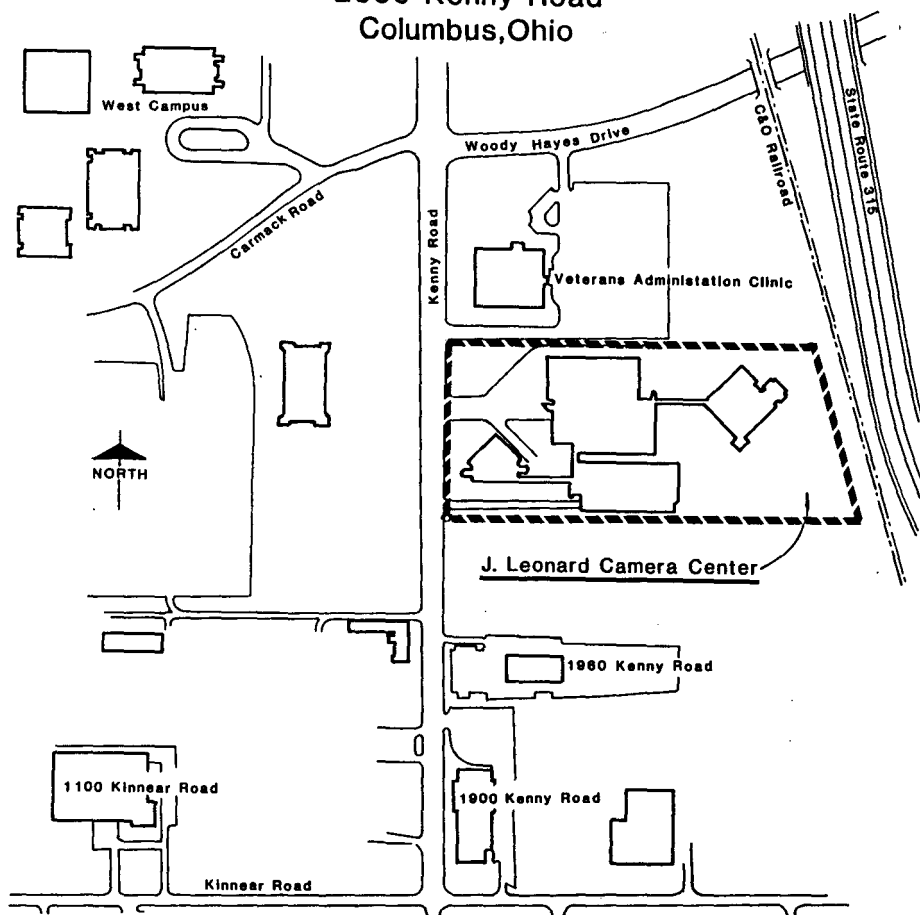
OSU Hospitals will also install in the Camera Center five rehabilitation administration professionals as a management team:

1. A Medical Director - either full-time or half-time as per the Camera Center's requests and needs.
2. An Administrator - who will have overall supervision of the entire Camera Center's operations, the rest of the OSU management team, and the non-professional service areas, department heads, and contract services reporting directly to him.
3. A Chief Financial Officer - who will be in charge of all facility specific financial issues, i.e. budgeting, reporting, accounting.
4. A Director of Professional Services - who will have reporting to him the department heads of occupational therapy, physical therapy, etc.
5. A Chief Information Officer - who will oversee the management information systems at the Center.

II. In exchange for the above services, the OSU Hospitals will receive from the Industrial Commission the following fees and in-kind reimbursement:

- A. Reimbursement, at OSU scales, for the salaries and benefits for the management team.
- B. An additional 25% Management Support Fee.
- C. Use of one normally furnished treatment "module" (7,564 sq. ft.) and all agreed-upon common facility spaces and equipment for the installation and operation of related OSU rehabilitation programs:
  - Exam suites/Offices/Waiting Areas
  - Classroom/Conference Rooms/Auditorium
  - Lab/X-Ray/Pharmacy
  - Physical and Occupational Therapy Areas and Equipment
  - Swimming Pool/Gymnasium/Running Track

Management of the J. Leonard Camera Center  
2050 Kenny Road  
Columbus, Ohio



Office of Business and Administration  
November 3, 1989

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**APPENDIX XXXII**

**NON-MANDATORY TRANSFER FROM CURRENT FUNDS  
FISCAL YEAR 1988-1989**

**Adopted by the Board of Trustees November 3, 1989  
(See page 422)**

Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>ENDOWMENT FUNDS</u>			
Endowment Clearing Account	070002	015039	33,866.00
Endowment Clearing Account	070002	022970	95.00
Endowment Clearing Account	070002	024526	5,000.00
Endowment Clearing Account	070002	037864	2,500.04
Friends of WOSU Endowment Fund	072324	033227	16,538.88
The Baker & Hostetler Law Library and Building Fund	072498	051506	5,000.00
The Baker & Hostetler Law Library and Building Fund	072498	051507	423,036.90
The Historic Costume & Textiles Collection Fund	073208	037675	30,000.00
Kurtz Chairs	073854	023854	214,732.50
The Helen Simpson Lambacher Fund	073900	050447	3,000.00
Ohio Eminent Scholar in Industrial Microbiology	075353	032360	50,000.00
Ohio 4-H Foundation Fund	075354	033590	135.00
OSU Name & Seal Scholarship Fund	075427	015102	670,000.00
Pharmacy Advancement	075725	050520	(22,500.00)
Thomas E. Powers Veterinary Clinical Pharmacology	075899	036960	15,000.00
Helen Hooven Santmyer Fund	076274	011045	35,317.90
Texnikoi-Arthur C. Avril Endow Fund	077182	035457	218,167.00
Transport Research Ctr Research Fund	077323	050566	557,427.00
Unrestricted Gifts	077435	015018	500.00
Various Endowment Funds	07XXXX	02XXXX	711,813.19
Total Transfers to Endowment Principal Funds			<u>\$ 2,969,629.41</u>
<u>To: LOAN FUNDS</u>			
Transferred from Current Funds	079000	015800	(9,474.00)
Emergency Loans-ATI	079991	033230	(1,842.00)
Emergency Loans-ATI	079991	038375	2,500.00
Total Transfers to Loan Funds			<u>\$ (8,816.00)</u>



Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>To: ANNUITY AND LIFE INCOME FUNDS</u>			
H.W.Almen Annuity & Life Income Fund	077961	038191	(380.03)
			-----
Total Transfers to Annuity and Life Income Funds			\$ (380.03)
			=====

To: PLANT FUNDS

Unexpended

Land Purchases	082027	010000	1,300,000.00
Land Purchases	082027	016300	74,947.64
OARDC Gnotobiotic Lab	082068	011467	89,501.49
Law Building Additions Plans	082073	038023	(13,399.16)
Bee Lab Replacement	082077	010000	12,959.50
Lima Parking Lot	082084	016008	1,049.12
			-----
Total Transfers to Unexpended Plant Funds			\$ 1,465,058.59
			=====

Renewal and Replacement Funds -  
Remodeling and Renovation

Bradford	085047	017200	21,131.00
Dorm Contingency Fund	085049	017200	7,004,440.15
Archer/Oxley Improvement	085050	017200	89,826.00
Parking Ramp Repair	085175	016007	25,000.00
South Medical Parking Ramp Repairs	085176	016007	(5,000.00)
Northwest Parking Ramp Repairs	085177	016007	(10,000.00)
Mendenhall - Cold Room	085193	010000	(13,022.00)
North Medical Parking Ramp	085269	016007	10,000.00
1224 Kinnear Road	085290	057236	714,193.00
Eleventh Avenue Ramp Repairs	085307	016007	(10,000.00)
Veterinary Science Facility	085311	010000	250,000.00
Conard Gallery - Mansfield	085314	037965	110,000.00
Law Building Locker Room	085335	010000	28,052.00
1986 Gen Receipt Bond Constrn Fund	085350	017200	243,080.00
Arps Ramp Addition	085375	010000	20,446.00
AM Night Transmitter	085376	033227	50,783.13
Vet Absorption Chiller	085386	010000	198,000.00
Civil & Aero Computer Lab	085394	010000	(13,470.27)
Johnston Lab Renovation	085397	010000	633.00
Library Project 2848 AR	085428	015103	35,422.00
Student Life Renovation	085429	010000	6,446.00

Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>Renewal and Replacement Funds -</u>			
<u>Remodeling and Renovation</u>			
Central Service Bldg Renovation	085446	010000	14,263.93
Arps Garage Repairs	085465	016007	(20,000.00)
12th Avenue Garage Repairs	085467	016007	(10,000.00)
Ives Hall Remodeling	085468	010000	29,500.00
Denney Hall Renovation-Room 161	085470	010000	1,600.00
Food Service Consulting	085494	017200	11,690.75
Project 3155AR-Townsend Hall	085498	010000	800.00
Project 3141 AR - Lincoln Tower	085504	010000	27,046.00
Ohio Union-Loading Dock Prj 2856	085512	016020	(109,994.83)
Proj 2964AR/SB-Service Building Annex	085513	010000	82,750.00
Eminent Scholar-Microbiology Project	085515	010000	285,000.00
Proj 3284-Ohio Union Cop-ez Store	085517	014030	32,050.00
Project 3192 AR - Sisson Hall	085518	010000	325.00
Proj 3124AR/GW-Evans Lab Room 1013	085519	010000	29,476.00
Hagerty Hall Air Con Prj 3299	085520	022875	8,372.00
Proj 2953-Veterinary Hospital	085521	050130	35,459.00
Proj 3136AR Robinson Lab	085523	010000	33,500.00
Postle Hall - Pre-Clinic Lab	085524	010000	25,000.00
Grape Research Facility-OARDC	085525	011467	20,000.00
Proj 3318-Bewis Hall Renovation	085526	010000	74,966.00
Taylor Tower-Project 3280AR	085528	017200	53,700.00
Proj 3158-ATI Swine Nursery	085530	011424	40,300.00
Plumb Hall-Project 3157AR	085535	038602	2,000.00
Proj 3364AR CAE Room 422	085537	010000	32,800.00
Proj 2874-Net Shape Lab Remodeling	085538	010000	83,000.00
Proj 3305AR B-Z Renovate Rooms	085539	010000	58,500.00
Proj 3386AR Print Facility-Roof Repl	085540	014002	10,000.00
Renovation of McPherson Lab	085541	010000	221,577.00
Lazenby Hall Renovation	085543	010000	24,648.00
MacQuigg Waterproof	085544	010000	1,687.24
Proj 3315/3332AR Ohio Stadium Renov	085545	010000	57,500.00
Proj 3337AR Johnston Lab Room 209M	085546	010000	25,149.00
B & Z Bldg Project 3428/Room 50	085551	010000	49,500.00
1121 Kinnear Road Project 3375AR	085552	010000	16,960.66
1121 Kinnear Road Project 3375AR	085552	014033	16,960.67
1121 Kinnear Road Project 3375AR	085552	057236	16,960.67
Botany & Zoology Lab	085556	014110	802.79
Mount Hall Project 3447	085557	010000	51,450.00
Photo Lab Project 3496	085560	010000	76,300.00
Photo Lab Project 3496	085560	020227	5,000.00
Photo Lab Project 3496	085560	032580	5,000.00
Photo Lab Project 3496	085560	057256	22,200.00
Postle Hall-Oral Biology	085561	021691	10,000.00

Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

Account Description	Account Number	Transfer From A/C Number	Amount
<u>Renewal and Replacement Funds - Remodeling and Renovation</u>			
St John Store Project 3231AR	085562	016019	26,700.00
St John Project 3421AR/107	085567	016019	33,670.00
Asbestos Abatement	085570	010000	14,043.00
Postle Hall Project 3483AR	085571	034947	50,000.00
Hitchcock Hall Project 3575AR	085574	012911	47,000.00
Water Resources Center Project 3559AR	085575	010000	100,000.00
Kottman Hall Project 3438AR	085576	024515	99,175.00
Total Remodeling and Renovation			<u>10,580,347.89</u>

To: PLANT FUNDS

Renewal and Replacement Funds -  
Repairs and Replacements

University Architects Equipment Resrv	086804	010000	(30,000.00)
Mershon Building Reserve Fund	086805	024919	125,000.00
Child Care Center Equipment Reserve	086807	011086	94,000.00
Child Care Center Plant Reserve	086808	011086	60,000.00
Capital Projects	086899	010000	2,550,000.00
Admissions-Equipment Reserve	086904	010000	1,560.00
Business Management Equipment Reserve	086907	010000	30,000.00
Physical Facility Equipment Reserve	086909	010000	(319,483.98)
Police Equipment Reserve	086910	010000	(116,336.00)
Traffic & Parking Equipment Reserve	086911	016007	104,700.00
Equipment Repair Reserve	086915	014027	17,535.00
Physical Facility Reserve	086920	010000	(42,355.12)
Fire Prevention - Equipment Reserve	086923	010000	(10,489.50)
Endowment Property Improv Reserve	086931	010190	1,734.00
Telecommunication Equipment Reserve	086938	011064	240,000.00
Internal Audit Equipment Reserve	086944	010000	(15,000.00)
Center for Teaching Excellence Resrv	086945	010000	(25,099.05)
Accounts Payable Equipment Reserve	086954	010000	48,750.00
Ohio Union - Improvement Reserve	086963	010000	(13,488.00)
Ohio Union-Improvement Reserve	086963	016020	202,595.00
Transportation Reserve	086964	010000	30,000.00
Lantern Equipment Reserve	086968	011081	91,000.00
Public Safety Equipment Reserve	086971	010000	4,830.00
Registrar Equipment Reserve	086975	010000	50,000.00
Air Transport Service Reserve	086976	014029	(18,000.00)
Contracts Administration Equip Resrv	086977	010000	(25,000.00)
OER Improvement Reserve	086981	014027	1,018.00
Finance Equipment Reserve	086982	010000	100,000.00

Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

<u>Account Description</u>	Account Number	Transfer From A/C Number	Amount
<u>Renewal and Replacement Funds -</u>			
<u>Repairs and Replacements</u>			
Recreation/Intramural Equip Reserve	086984	010000	35,000.00
Student Affairs - Equipment Reserve	086985	010000	51,415.53
Student Affairs - Equipment Reserve	086985	016020	5,240.65
University Systems Equipment Reserve	086990	014033	185,000.00
University College Equipment Reserve	086992	010000	110,000.00
Cash Advances-Clearing	086993	011083	50,000.00
Univ. Hospital Capital Equipment	086995	033387	5,000.00
Univ. Hospital Capital Equipment	086995	019000	3,259,580.94
Veterinary Pathobiology	086996	010000	125,730.00
Veterinary Pathobiology	086996	015109	14,500.00
Plant Funds General	086999	014010	(31,250.00)
Total Repairs and Replacements			<u>\$ 6,947,687.47</u>
Total Transfers to Renewal and Replacement Funds			<u>\$17,528,035.36</u> =====
<u>Retirement of Indebtedness</u>			
Debt Service - HC #3	087003	017300	2,106,915.70
Debt Service Reserve - HC #3	087004	017300	(271,250.00)
Bond Redemption - HC #3	087005	017300	(21,402.56)
1986 Debt Service Pool	087063	016007	221,766.00
1986 Debt Service Pool	087063	016019	174,203.08
Total Transfers to Retirement of Indebtedness			<u>\$ 2,210,232.22</u> =====

Non-Mandatory Transfers from Current Funds  
Fiscal Year 1988-1989

<u>Account Description</u>	Account Number	Transfer From A/C Number	<u>Amount</u>
<u>Investment in Plant</u>			
Construction-in-Progress	088500	019982	6,596,093.00
Total Transfers to Investment in Plant			\$ 6,596,093.00
			=====
Total Transfers to Plant Funds			\$27,799,419.17
			=====
Grand Total Non-Mandatory Transfers From Current Funds			\$30,759,852.55
			=====

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APPENDIX XXXIII

Degrees Conferred at

THE OHIO STATE UNIVERSITY  
COMMENCEMENT CONVOCATION

December 8, 1989

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## Commencement Speaker

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### Gerald M. Reagan

Gerald M. Reagan is a professor of education in the Department of Educational Policy and Leadership at The Ohio State University. Professor Reagan has published numerous articles, books, and papers in his specialty of the philosophy of education and has presented papers not only in this country, but also in England, Ireland, Australia, and Tasmania. His work includes the examination of ethics for educators and moral education for today's students.

After receiving his bachelor's degree in history from the University of Nebraska, a master's degree in history from Western Michigan University, and a doctoral degree in education from Michigan State University, Professor Reagan served as a member of the faculties of the University of California at Los Angeles and Syracuse University. He came to Ohio State in 1969, and currently serves as vice chair of his department. Professor Reagan also is director of the Lilly Teaching Fellows Program.

Active in University governance, Professor Reagan has served three terms on the University Senate. In 1986, he was called upon to chair the University's Special Committee for Undergraduate Curriculum Review, and his leadership and commitment to excellence have significantly influenced the future direction of undergraduate education at Ohio State.

A productive scholar and a willing and capable University citizen, Professor Reagan is a past recipient of The Ohio State University Alumni Distinguished Teaching Award. He truly represents excellence in all aspects of his faculty role. We are most delighted that Professor Reagan has agreed to address today's graduates.

## Recipients of Honors

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### Stanley E. Harrison Doctor of Humane Letters

A 1958 graduate of The Ohio State University College of Engineering, Stanley E. Harrison has been an innovator and leader in a rapidly changing field. Having begun his professional career at the Battelle Memorial Institute and, later, Martin Marietta, Mr. Harrison joined the BDM Corporation in 1968. He has retired from his position as president and chief executive officer of BDM International, Inc. During his tenure at BDM, the company became a significant leader in applying high technology to some of the world's most perplexing problems—from energy and the environment to economic analysis and national defense.

Mr. Harrison is deeply committed to excellence and opportunity in higher education and has contributed his considerable leadership talents to a number of education-related endeavors. He served as chair of the Virginia Council of Higher Education and has been a trustee of Western Maryland College, Rio Grande College, and the Shenandoah College and Conservatory of Music. The National Center for the Performing Arts operated by the Wolf Trap Foundation also has enjoyed his innovative thinking and able leadership. He is now president of The Potomac Foundation, a non-profit corporation dedicated to the advancement of knowledge in science and technology, education, defense, and social development.

Ohio State's College of Engineering has called upon Mr. Harrison for counsel through the years. In 1979, the college established its Committee for Tomorrow to solicit help from industry and alumni in order to meet the changing needs of engineering education. They could think of no one to chair this group whose career and personal values more closely matched the goals of the college than Stanley Harrison.

A model of professional achievement and civic responsibility, Mr. Harrison built a company that is a pacesetter in using technology in innovative ways. He has applied his analytical skill and creative thinking beyond his corporate life to serving others. We honor both his technical and managerial achievements and his unstinting humanitarian spirit.

### James E. Chapman Distinguished Service Award

Since he graduated *cum laude* from Ohio State's College of Business in 1953 and *summa cum laude* in 1954 from the College of Law, Jim Chapman has accumulated a distinguished record of volunteer service to the University. Over the last three decades, he has maintained a strong relationship with the College of Law, providing valuable counsel to the dean, faculty, and staff on the direction of the law school.

Mr. Chapman, a partner in the Cleveland office of the law firm of Baker and Hostetler, has been an important leader in the success of the record-breaking Ohio State University Campaign as a member of the National Campaign Steering Committee. He has taken the lead in enhancing the image of and support for the University in the Cleveland area. In addition to fundraising activities, he has served on the executive committee of The Presidents Club and is an active member of the Ohio State Alumni Club of Cleveland.

Ohio State is not the only organization to benefit from his time and talents. He has been an officer of the National Association for Mental Health and is involved with numerous cultural groups in northeast Ohio, including the Suburban Symphony and the Shaker Symphony Orchestra. Chapman also is a member of the steering committee for the Linnean Society of The Cleveland Museum of Natural History. He maintains a strong interest in maritime history and art and ship preservation. He serves as a trustee of the Mystic Seaport Museum and the National Maritime Historical Society.

Mr. Chapman exemplifies the unmistakable spirit of service to others and to his alma mater, and it is with pride that we present him this Distinguished Service Award.

## Recipients of Honors

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### **Mary Anne Southard Distinguished Service Award**

Mary Anne Southard retired in December 1987 from her position as associate director of gift processing in the Office of University Development after some 30 years in fund-raising support at The Ohio State University. She and her staff were responsible for the receipt, processing, acknowledgement, and recording of each gift contributed to the University which, by the end of her career, amounted to nearly \$50 million each year.

The hallmark of Ms. Southard's work throughout her three decades at Ohio State was meticulous attention to detail. Within a rapidly growing and increasingly computerized operation, she gave each gift, great or small, personal attention, ensuring that the funds went quickly to the department, project, or program selected by the donor. Her respect for the intentions of those making gifts was unwavering, and her concern helped convey the University's sincere appreciation to every donor.

Those who work behind the scenes often are most critical to the success of a major undertaking. Such is the case with Mary Anne Southard. Her extraordinary organizational skills and caring attitude were instrumental in the growth of the development program at Ohio State. In many ways, she has shaped both the system and the spirit of the development support operation.

For her loyalty, her effort, and her professionalism, The Ohio State University awards her its Distinguished Service Award.

### **Stuart A. Summit Distinguished Service Award**

Ohio State alumnus Stuart Summit is a principal partner and head of litigation of the New York law firm Summit, Rovins & Feldesman. Mr. Summit, who holds degrees both in business and in law, served as counsel to the New York State Commission on Judicial Nomination, which is responsible for nomination of candidates for appointment to the New York Court of Appeals. He currently is a member of the Bar of the City of New York committee on women in the profession. He is a frequent lecturer and is the author of various articles on litigation.

In the years since graduation, Mr. Summit's service to the University has been consistent and invaluable. He has been an active member of the National Council of Advisors to the College of Law since 1969 and was elected president of the college's alumni association. For six years, he represented the law school to the Alumni Advisory Council.

Mr. Summit received the 1988 Ralph Davenport Mershon Award from The Ohio State University Alumni Association in recognition of his exemplary dedication to his alma mater. Now a member of Ohio State's National Campaign Steering Committee, he also has been a member of the executive committee of The Presidents Club and of the Development Fund Board.

To honor Mr. Summit's long-standing commitment to excellence and his dedication to this institution, The Ohio State University presents him with this Distinguished Service Award.

## Recipients of Honors

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### Richard W. Trott Distinguished Service Award

Richard Trott has made extraordinary contributions toward raising the standards of excellence in architectural design in Ohio and the nation. He graduated from The Ohio State University *summa cum laude* and received virtually every award given by the School of Architecture. In his professional career, he has maintained this high level of excellence.

Particularly known for the design of corporate facilities and retail centers, Mr. Trott has received more than 80 awards for design and technical achievements. He has made many important design contributions to the quality of this campus including the outdoor performance center in Browning Amphitheater near Mirror Lake. None to date, however, are comparable to the enormous effort and distinguished leadership he invested in the design and construction of the Wexner Center for the Visual Arts with his colleague and partner, Peter Eisenman.

An adjunct professor of architectural design, Mr. Trott has taught a design course each year and has served on a number of juries and reviews, enjoying the opportunity to regularly interact with students. He has participated in the Symposium on A Quality Learning Environment and the Committee for Tomorrow of the College of Engineering. A 1984 recipient of the Distinguished Alumnus Award, he also was a special honoree at the 300th Commencement ceremonies in 1987. He is a tireless advocate for the University and vigorously promotes it and stimulates its enhanced excellence.

In recognition of his unselfish devotion to his University, his profession, and his community, The Ohio State University presents him with the Distinguished Service Award.

### Leon I. Twarog Distinguished Service Award

It has been through the vision and leadership of Leon Twarog that The Ohio State University now stands as a leader in Slavic studies. During his more than 25-year tenure at this university, he guided the development of the Department of Slavic and East European Languages and Literatures. His Individualized Language Instruction program was a pioneering project in the country, altering the manner in which language was taught by using a self-paced program. He initiated the first Ohio State Language Study Program to the Soviet Union in 1963; today it operates successfully as the Ohio State-Purdue Pushkin Institute Moscow exchange and instruction program.

Now retired from the faculty, Professor Twarog distinguished himself as a scholar, teacher, and administrator. He received Ohio's Outstanding Teacher Award in 1984 and has worked tirelessly not only with university students, but also with high-school Slavic students and teachers across Ohio. He served as president of the American Association of Teachers of Slavic and East European Languages and is one of the world's foremost experts in his field.

Professor Twarog's career has been characterized by vision and foresight. In the early 1960s, he began collecting library resources for this University in the Slavic area. The internationally acclaimed Hilander Collection in the Ohio State Libraries has succeeded in large measure due to Professor Twarog's persistence.

Leon Twarog has helped elucidate cultures that are different from our own to thousands of students and consequently, his legacy is one of enlightenment and understanding.

In recognition of his remarkable service to the University, the nation, and to the scholarly community, The Ohio State University presents him with the Distinguished Service Award.

## The Graduate School

Dean: Roy A. Koenigsnecht

### Doctor of Musical Arts

**Cynthia Renee Coleman**, Salem, VA; B.A. (Hollins College, Virginia); M.M. (University of Maryland); *Music*  
Dr. *Helen C. Swank*

**Thomas Andrew Gregg**, Columbus; B.M. (Capital University); M.M. (University of Michigan); *Music*  
Dr. *Helen C. Swank*

**Ching-Jen Wu**, Taiwan, R.O.C.; B.Mus. (National Taiwan Normal University); M.Mus. (Ohio University); *Music*  
Dr. *Rosemary Platt*

### Doctor of Philosophy

**Bulent Abali**, Ankara, Turkey; B.S. (Middle East Technical University, Ankara); M.S.; *Electrical Engineering*  
Dr. *F. Ozguner*

**Tarek Saad Amer**, Gainesville, FL; B.S. (California State University, Chico); M.S. (Texas A&M University); *Accounting and Management Information Systems*  
Dr. *Andrew D. Bailey, Jr.*

**Abdelmoniem Mohamed Amin**, Cairo, Egypt; B.S. (Cairo University); M.S.; *Civil Engineering*  
Dr. *Robert L. Sierakowski*

**Esam Fathi Ayoub**, Cairo, Egypt; B.S., M.S. (Cairo University); *Engineering Mechanics*  
Dr. *Arthur W. Leissa*

**Audrey Susan Bahrick**, Delaware; B.A. (Ohio Wesleyan University); M.A., M.A.; *Psychology*  
Dr. *Theodore Kaul*

**Jeff David Tainatongo Barcinas**, Merizo, Guam; B.S. (California State Polytechnic University); M.A. (Washington State University); *Agricultural Education*  
Dr. *J. David McCracken*

**Paul Leo Bartel**, Parma; B.S. (University of Cincinnati); M.S.; *Microbiology*  
Dr. *William Strohl*

**Kanwaljit Bhatia**, Lajpat Nagar, India; B.S. (University of Roorkee); M.S. (University of Manitoba); *Engineering Mechanics*  
Dr. *S. H. Advani*

**Daniel J. Birmingham**, Columbus; B.S., M.S.; *Pathology*  
Dr. *Hari M. Sharma*

**Cynthia Story Bissom**, Paducah, KY; B.A., M.A. (Murray State University); *History*  
Dr. *John A. Rothney*

**Jennifer Ann Bogner**, North Ridgeville; B.S. (University of Maryland); M.A.; *Psychology*  
Dr. *David Hammer*

**Cynthia E. Bylander**, Attleboro, MA; B.F.A. (University of South Dakota); M.A.; *Music*  
Dr. *Margarita Mazo*

**Joseph John Calabrese**, Columbus; B.A. (State University of New York at Albany); M.S.; *Physics*  
Dr. *James Garland*

**Ayşe Can**, Ankara, Turkey; M.C.R.P., M.A.; *Geography*  
Dr. *Emilio Casetti*

**Maria Eugenia Casanueva**, Concepción, Chile; M.S. (Concepción University, Chile); *Entomology*  
Dr. *Donald E. Johnston*

**Jin-Seob Cha**, Chulanam-do Damyang, South Korea; B.S. (Korea Military Academy); M.S. (United States Naval Postgraduate School); *Industrial and Systems Engineering*  
Dr. *Albert B. Bishop*

**Udomsak Chakreyavanich**, Bangkok, Thailand; B.Eng., M.Eng. (Chulalongkorn University); *Geodetic Science and Surveying*  
Dr. *Anton F. Schenk*

**Saeyoung Chang**, Edmonton, Alberta, Canada; B.Commerce (University of Calgary); M.B.A. (Indiana University); *Business Administration*  
Dr. *David Mayers*

**Chujej Chansa-ngavej**, Bangkok, Thailand; B.E., M.E. (The University of New South Wales); *Industrial and Systems Engineering*  
Dr. *Clark Mount-Campbell*

**Suparp Chatraphorn**, Bangkok, Thailand; B.S. (Kasetsart University); M.S. (University of North Carolina at Greensboro); *Home Economics*  
Dr. *Janet Laster*

**Yi-Tzong Chern**, Taiwan, R.O.C.; B.S., M.S. (Cheng-Kung University); *Engineering Mechanics*  
Dr. *A. W. Leissa*

**Charles David Deltz**, Euclid; B.A. (Bemidji State University, Minnesota); M.A.; *Psychology*  
Dr. *Steven J. Beck*

**Dennis Robert DeVries**, Winona Lake, IN; B.S. (Purdue University); M.S.; *Zoology*  
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Dr. *Katherine Meyer*

**Linda E. Dorsten**, Westerville; B.A. (Otterbein College); M.A.; *Sociology*  
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**Johannes Esomar**, Manado, Indonesia; B.A. (Institute of Teacher Training and Education); Master's (State University of New York at Buffalo); *Education*  
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Dr. *William W. Muir III*

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Dr. *Burk A. Dehority*

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Dr. Samuel H. Ospow

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Dr. Bruce Weide
- Connie K. Schondel**, Toledo; B.A. (Kent State University); M.S.S.A. (Case Western Reserve University); Social Work  
Dr. Beverly Toomey
- Erin Jay Schram**, Royal Oak, MI; B.S. (Michigan State University); M.A. (University of Kentucky); Mathematics  
Dr. Dijen Ray-Chaudhuri
- Leslie Lisbeth Schrier**, Los Angeles, CA; B.A. (California State University at Northridge); M.A. (Drake University); Education  
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- Karen Christine Scott**, Columbus; B.S.Agr., M.S.; Poultry Science  
Dr. J. D. Latshaw
- Mankelklot Haile Selassie**, Ethiopia; B.S. (Addis Ababa University); M.S. (California Polytechnic State University); Agriculture  
Education  
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Dr. James F. Davis
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Dr. Harry R. Blaine
- Raghvendra Singh**, Shikohabad, India; B.Eng. (University of Roorkee); M.Eng. (Carleton University); Civil Engineering  
Dr. R. L. Sierakowski
- Suresh Kumar Sitaraman**, Madras, India; B.E. (University of Madras); M.A.Sc. (University of Ottawa, Ontario, Canada); Mechanical Engineering  
Dr. G. L. Kinzel
- Sharon Rinkliff Stanley**, Circleville; B.S.N. (University of Maryland); M.S.N. (Wright State University); M.A.; Health, Physical Education and Recreation  
Dr. R. Cory Bates
- Marjorie Armstrong Stassen**, Newark; B.S., M.L.H.R.; Labor and Human Resources  
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- Bambang Sugeng**, Indonesia; B.A., M.A. (IKIP Yogyakarta); Education  
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Dr. C. Weldon Mathews
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- Sirinart Vasanavathana**, Bangkok, Thailand; B.S. (Mahidol University); M.S.; Pharmacy  
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Dr. Judy Genshaft
- Feifei Wei**, Taipei, Taiwan, R.O.C.; B.A. (National Hsing Hua University); M.S. (Tam Kang University); M.Appl.Stat.; Statistics  
Dr. William Notz
- Rita Lappin Wells**, Beavercreek; B.A. (University of Illinois); M.B.A. (Southern Illinois University); Education  
Dr. D. L. Boggs
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Dr. Teng-Hwang Lai
- Mark Harold Wilde**, Allison Park, PA; B.S. (Pennsylvania State University); M.S. (University of Connecticut); Animal Science  
Dr. Walter Threlfall
- Philip Eugene Winger**, St. Louis, MO; B.A. (Westminster College, Missouri); M.Ed. (University of Missouri-Columbia); Education  
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- Timothy F. Winters**, Columbus; B.A. (University of Arizona); M.A.; Classics  
Dr. Stephen V. Tracy

**Kathryn Anne Witt**, Hawthorne, NJ; B.A. (Hope College); M.S. (Purdue University); *Home Economics*  
Dr. Jean Snook

**Patricia Woods-Samuels**, Pasadena, MD; B.S. (John Carroll University);  
OSU Biochemistry Program  
Dr. Elio F. Vanin

**David Paul Workman**, Fulton, IL; B.S. (Northern Illinois University); *Chemistry*  
Dr. Sheldon G. Shore

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Dr. Alan G. Marshall

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Dr. Donald C. Mahan

**Nai-Dong Ye**, Guangzhou, P.R.C.; B.S. (Zhongshan University); *Chemistry*  
Dr. Daryle H. Busch

**Brian A. Young**, Yellow Springs; B.S.; M.S. (Texas A&M University); *Agronomy*  
Dr. Steve St. Martin

**Brian Scott Zaff**, East Liberty; B.A. (Trinity College); M.A.; *Psychology*  
Dr. Dean H. Owen

**E. H. Kelle Zeiher**, Newark; B.S. (University of Cincinnati); M.S. (Indiana University); *Chemistry*  
Dr. Andrew Wojcicki

**Xiao-Cheng Zeng**, Beijing, P.R.C.; B.S. (Peking University); M.S.; *Physics*  
Dr. D. G. Stroud

**Hai-Ying Zhang**, Shanghai, P.R.C.; M.D. (equivalent) (Shanghai First Medical College); M.S. (Institute of Cell Biology); *Medical Microbiology and Immunology*  
Dr. Ronald Glaser

**Ke Zhang**, Shenyang, P.R.C.; B.S. (Jin-Zhou College of Medicine); M.S. (China Medical University); *Veterinary Physiology and Pharmacology*  
Dr. Robert L. Hamlin, Dr. S. Mark Strauch

## Master of Applied Statistics

**Yong Sok Choe**, Columbus; B.S.; *Statistics*

**Thomas Gerald Jacobs**, Columbus; B.S. (University of Michigan); *Statistics*

**Kevin Andrew Keller**, Florissant, MO; B.S. (University of Missouri-Rolla); *Statistics*

**Daniel J. Obermiller**, Norwalk; B.S. (John Carroll University); *Statistics*

**Thomas Charles Schultz, Jr.**, Columbus; B.S. (University of Pittsburgh); *Statistics*

## Master of Architecture

**Markus Bonn**, Aschaffenburg, West Germany; B.S.Arch; *Architecture*

**David Wayne Bullock**, Sylvania; B.S.Arch; *Architecture*

**Daniel Lee Grandy**, Columbus; B.S.Bus.Adm.; *Architecture*

**Douglas Kenard Roberts**, Clinton, CT; B.S. (Clemson University); *Architecture*

**Laura Venable Shinn**, Columbus; B.S. (University of Virginia); *Architecture*

**Geoffrey King Smith, Jr.**, Grove City; B.S.Arch.; *Architecture*

**Thomas Byron Spreacker**, Franklin Furnace; B.S.Arch; *Architecture*

## Master of Arts

**Robertia Lynne Amann**, Madison, WI; B.A. (University of Wisconsin, Milwaukee); *Anthropology*

**Gregory Emeka Anonyuo**, Ihiara, Nigeria; B.A. (University of Nigeria); *Black Studies*

**Nancy Renee Augsburg**, Columbus; B.S.; *Health, Physical Education and Recreation*

**Gregory J. Bell**, Columbus; B.A. (Kenyon College); *Judaic and Near Eastern Languages and Literatures*

**Mary Catherine Beyer**, Columbus; B.S.N. (Marquette University); *Education*

**Carol Louise Biliczky**, Medina; B.A. (Kent State University); *Journalism*

**Cynthia Anne Boner**, Johnsville; B.S.Ed.; *Education*

**Rennie Grace Boring**, Worthington; B.Mus.Ed.; *Music*

**Patricia Anne Bright**, Columbus; B.S. (Northern Illinois University); *Education*

**Mary Ann Brown**, Columbus; B.A. (Capital University); *Education*

**Catherine C. Calhoun**, Columbus; B.A. (Yale University); *Judaic and Near Eastern Languages and Literatures*

**Amy S. Cava**, Columbus; B.A. (Butler University); *Education*

**Eng Chin Ch'ng**, Selangor, Malaysia; B.A. (Universiti Sains Malaysia); *Journalism*

**Micheline Badih Chalhoub**, Lebanon; B.A. (Beirut University College); *Education*

**Pamela Benedict Cheek**, Worthington; B.S. (Otterbein College); *Education*

**Su-Yen Chen**, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); *Education*

**Karen L. Coleman**, Cleveland; B.S.Bus.Adm.; *Education*

**Shery Louise Cornelius**, Columbus; B.S. (Georgetown University); *Slavic Languages and Literature*

**Aliza Rachel Corson**, Columbus; B.S. (New York University); *Art Education*

**Jane E. Cottrell**, Columbus; B.S., M.A. (Northwestern University); M.A.; *Psychology*

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## Master of Fine Arts

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**Deirdre Herron Chaffeur**, Tacoma, WA; B.A. (Central Washington University); *Art*

## Master of Labor and Human Resources

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**Cynthia Lynn Coykendale**, Hilliard; B.S.; *Labor and Human Resources*

**Tristen Dail Hennigs**, Findlay; B.A.; *Labor and Human Resources*

**Amy Faye Lint**, Dennison; B.A.; *Labor and Human Resources*

**Ellen L. Milnes**, Youngstown; B.S.L.H.R.; *Labor and Human Resources*

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## Master of Music

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## Master of Public Administration

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- Juan F. Rodriguez**, Santa Barbara, Venezuela; B.S. (The University of Tennessee at Martin); *Agricultural Education*
- Susan Jane Rosenberger**, Columbus; B.S.Nurs.; *Nursing*
- Michele Ina Rosenthal**, Bellmore, NY; B.S. (State University of New York at Oneonta); *Chemistry*
- Rusdiyanto**, Pemalang, Jawa Tengah, Indonesia; B.S. (Bogor Agricultural University); *Agricultural Economics and Rural Sociology*
- Judith Marie Rypel**, Westerville; B.S. (Viterbo College); *Nursing*
- Marc Andrew Sarrel**, Woodbridge, CT; B.S. (Washington University in Saint Louis); *Computer and Information Science*
- Gregory Morris Saunders**, Piqua; B.S.; *Computer and Information Science*
- Chandradeo Sawh**, Berbice, Guyana; B.S.M.E.; *Mechanical Engineering*

**Sherie Marie Schmidt**, Elyria; B.A.; *Home Economics*

**Susan Elizabeth Seitz**, Toledo; B.S.Agr.; *Veterinary Preventive Medicine*

**Ravi Shankar**, Delhi, India; B.S. (Govt. Engg. College-Jabalpur, India); Long Surv. Mil. Eng (C.M.E. Puna and Hyderabad); *Geodetic Science and Surveying*

**Than Than Shwe**, Rangoon, Burma; B.S. (Rangoon Institute of Technology); *Civil Engineering*

**Fredric Hilary Simon**, Columbus; B.A. (State University of New York at Albany); D.D.S. (Columbia University); *Dentistry*

**Amitabh Bhuvangyan Sinha**, Durgapur, India; B.Tech. (Indian Institute of Technology, Kanpur); *Computer and Information Science*

**Deslijati Sarjif**, Jakarta, Indonesia; Sarjana (Institute Technology of Bandung); *Geodetic Science and Surveying*

**Kathleen Ann Skog**, Columbus; B.S.I.S.E.; *Industrial and Systems Engineering*

**Kathy Lynn Smith**, Mansfield; B.S.Nat.Res.; *Natural Resources*

**Donna A. Spontak**, Columbus; B.S. (University of California at Berkeley); *Agronomy*

**William M. Steedly**, Louisville, KY; B.S. (Virginia Polytechnic Institute and State University); *Electrical Engineering*

**Randolph Hilton Stewart**, Ingram, TX; B.S., D.V.M. (Texas A & M University); *Veterinary Clinical Sciences*

**Todd Kenneth Stickley**, Urbana; B.S.Agr.; *Poultry Science*

**Cheryl Diane Stitt**, Columbus; B.S.Ed.; *Mathematics*

**Michael James Stonerock**, Columbus; B.S.; *Environment Biology*

**Lisa Louise Suchocki**, Steubenville; B.S.All'd.Hlth.Prof.; *Allied Medical Professions*

**Vikram Swaminathan**, Columbus; B.S. (Tamil Nadu Agricultural University); M.S. (University of Agricultural Science); *Botany*

**R. Michael Taylor**, North Ridgeville; B.S.E.E.; *Electrical Engineering*

**Louis Tijerina**, San Antonio, TX; B.A. (Saint Mary's University of San Antonio); M.A., Ph.D.; *Industrial and Systems Engineering*

**Jane Tolley**, Hamilton; B.S.; *Horticulture*

**Namatie Traore**, Tengreia, Ivory Coast; B.S. (University of Côte d'Ivoire); *Agricultural Economics and Rural Sociology*

**Guang-Yau Tedy Tzeng**, Keelung, Taiwan, R.O.C.; B.S. (Chung-Yuan Christian University); *Civil Engineering*

**Roberto Ulloa-Vaca**, Quito, Ecuador; B.S. (Universidad Catolica de Ecuador); *Natural Resources*

**Michael Andrew Ulm**, Coral Springs, FL; B.S.; *Computer and Information Science*

**Anna Margaretha Van Heeckeren**, Gates Mills; B.S. (University of Michigan); *Molecular Genetics*

**Thierry Sylvain Vandenhete**, Nointel, France; Bachelor (ESCIL France); *Chemistry*

**Suchada Vuddhakanok**, Bangkok, Thailand; B.S., D.D.S.; (Chulalongkorn University); *Dentistry*

**Lisa Ann Wahoff**, Columbus; B.S. (Ohio Wesleyan University); *Nursing*

**Sandra Lee Walden**, Powell; B.S. (University of North Carolina at Greensboro); *Nursing*

**Amy Lynne Walters**, Columbus; B.S. (Colorado State University); *Home Economics*

**Susan Carol Watson**, Mt. Vernon; B.S. (Bucknell University); *Computer and Information Science*

**Elizabeth Ann Watters**, Cleveland; B.S.H.E.; *Home Economics*

**Vera Fosnot Wehrli**, Columbus; B.S.E.E. (Case Western Reserve University); *Computer and Information Science*

**Eric Allen Whitehill**, Fairborn; B.S.E.E.; *Electrical Engineering*

**Daniel Wims**, Lumpkin, GA; B.S. (Fort Valley State College); *Agricultural Education*

**Kim Ann Winpisinger**, Fairview Park; B.S.; *Preventive Medicine*

**Timothy Scott Woodruff**, Centerburg; D.V.M.; *Veterinary Preventive Medicine*

**Essam A. Zabad**, Makkah, Saudi Arabia; B.Sc., M.Sc. (University of Petroleum and Minerals); *Industrial and Systems Engineering*

**Ofer Zilberstein**, Tel Aviv, Israel; B.A. (Tel Aviv University); *Geodetic Science and Surveying*

**Mark Robert Zimmerman**, North Canton; B.S. (Grove City College); M.B.A.; *Nuclear Engineering*

## **Master of Social Work**

**Nella B. Garrett**, Columbus; B.S.Soc.Work; *Social Work*

## Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences: Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts  
College of the Biological Sciences  
College of the Humanities  
College of the Mathematical and Physical Sciences  
College of the Social and Behavioral Sciences

## College of the Arts

Dean: Donald Harris

### Bachelor of Arts

Mark Kevin Carley, Columbus  
Amy B. Corrigan, Pataskala  
Deborah Sue Dixon, Columbus  
Steven Douglas Goergens, Delphos  
Jennifer Anne Hettel, Toledo  
Raymond S.C. Hwang, Beavercreek  
Laura Jane Johnston, Columbus  
David Harrison Klebanow, Cincinnati  
Lisa K. Crist Ostermeyer, Alexandria  
Jennifer Ann Pirwitz, Upper Arlington  
David Michael Rea, Columbus  
Amy Linette Weinhold, Columbus

### Bachelor of Fine Arts

Ann Marie Banbury, Ashland  
Ella Durange Drauglis, Columbus  
Jamie Louise Frueh, Lima  
Lisa Michelle Garland, Warren  
Tracey Jollay, Columbus  
Susan Jane Kasyon, Brecksville  
Herbert E. Poling, Jr., Circleville  
Janice Elaine Schmader, Pickerington  
Benjamin Todd Steere, Ashland  
Allyson Ann Stevens, Upper Arlington  
Douglas Edward Wilford, Columbus  
Monica Ann Wilson, Galion  
Sandra Julienne Wolk, Cleveland

### Bachelor of Music

Daniel A. Neer, Dublin  
Jennifer Ann Quilty, Columbus  
Janice L. Rengert, Marion

### Bachelor of Art Education<sup>1</sup>

Clifford Mark Danon, Montvale, NJ  
Annette Sue Reynolds, Columbus  
Tara Kay Torkelson, Centerville

### Bachelor of Art Education<sup>2</sup>

Joan Angela Hargis, Bucyrus  
James Dean Johnson, Hilliard  
Erika Frances Karlak, Columbus  
Peggy Sue Marker, Russells Point  
Kay Frances Oiler, Pataskala  
Angela Marie Phillips, Marion  
Randolf Reder, Columbus  
Karen Beth Schneider, Cincinnati  
Dorian Inskeep Traynham, Marion

### Bachelor of Music Education<sup>2</sup>

James Robert Athanasen, Girard  
Lori Lynn Dunkle, Xenia  
Lori Lynn McMillion, Sycamore  
Carol Tammy Rand, Crestline  
Amy Denise Whitehill, Fairborn

### Bachelor of Science in Audio Recording

Michael Robert Husman, Cincinnati

### Bachelor of Science in Industrial Design

Karen Lee Wirtz, Hudson

## College of Biological Sciences

Acting Dean: Gary L. Floyd

### Bachelor of Arts

Beverly Diane Demko, Reynoldsburg

### Bachelor of Science

Christine Lynn Anderson, North Ridgeville  
Theresa Elaine Baker, Madison  
Brenda Charlene Berstler, Columbus  
Christopher Robert Bethel, Parma Heights  
Pamela Joan Burks, Columbus  
Tammy Marie Byrd, Vermilion  
Theodore Christopher Comas, St. Clairsville  
Matthew Dale Crawley, Columbus  
Philip Allen Felman, Trotwood

<sup>1</sup>Offered by the College of the Arts

<sup>2</sup>Offered jointly by the College of the Arts and the College of Education

Robert Lewis Gable, Jr., West Jefferson  
Jayma Lynn Hatcher, Columbus  
Amy Lynn Hauger, Howard  
Lisa Ann Herold, Poland  
Katherine Anne Holmes, Vermilion  
Fredric Michael Hustey II, Columbus  
Lorri Anne Jackson, Reynoldsburg  
John Michael Kukay, Medina  
Christine Kay Laskin, Mayfield Heights  
Marlin Howard Linger, Columbus  
Beth Anne McNally, Columbus  
David Bruce Parrett, Antwerp  
Stephen Joseph Rabe, Kettering  
David Andrew Rings, Montpelier  
Robert Leon Sharp, Toledo  
Jeffrey Bryan Thuma, Strongsville  
Larry M. Tincher, Jr., Northwood  
Alex Valdez Trevino, San Antonio, TX  
Mary Elizabeth Varner, Marion

## College of Humanities

Dean: G. Micheal Riley

### Bachelor of Arts

Jonathan Franklin Abels, Columbus  
Danny G. Arledge, Columbus  
Shirley Ann Arroyo, Brook Park  
Nader Ayish, Elyria  
Heather Lynne Bain, Fairview Park  
Laura Dowling Bolon, Columbus  
Richard David Bonk, Rocky River  
Catherine Ann Cartwright, Heath  
Timothy Henry Cole, Lima  
Lisa Clare Dierker, Columbus  
Luci Theresa Dimick, Aurora  
Paula Jill Drozdowski, Columbus  
Rebecca L. Felkner, Columbus  
Derek Walker Fitch, Lyndhurst  
Howard Steven Fogle, Cincinnati  
Christine René Fox, Columbus  
Christopher Lynn Freeman, Columbus  
Stewart Manuel Gonzalez, Shaker Heights  
Amy Renee Green, Marion  
Reyne Marie Grinstead, Canton  
Teresa Lindsey Hertlein, Westerville  
Barbara Mary Horton, Portsmouth  
Kristina Frances Jurecic, Cherry Hill, NJ  
Jovan Aleksandar Karcic, Medina  
Joseph Pettigrew Kearns, Jr., Ashland  
Samuel David Klein, Cleveland Heights  
Linda Rae Ludewig, Wintersville  
Lisa Diane MacFadden, Columbus  
John David Mariner, Cuyahoga Falls  
Scott Alan Marlow, Findlay  
Lois Sevim McCutcheon, Lakewood  
Wayne Earl Motts, Groveport  
David Dean Parker, Delaware  
Mika Sue Pegg, Sidney  
Crystal Brooke Queen, Heath  
Matthew David Reither, Shelby  
Amy Kathryn Resor, Columbus  
Forest Joseph Rushay, Zanesville  
Phillip Michael Sexton, Beavercreek  
Shane Clay Shope, Columbus  
Marcie Dyan Sinkoff, University Heights

Thomas Eugene Sinclair, Columbus  
 Angela Gayle Slezak, Columbus  
 Cynthia Marie Slonaker, Columbus  
 David Todd Smith, Youngstown  
 Stephen Douglas Smith, Cleveland  
 Michelle Kathleen Speights,  
 Northport, NY  
 Douglas Leigh Trattner, Pepper Pike  
 Jane Elizabeth Utgard, Columbus  
 Victoria Jean Weals, Columbus  
 Michael Alva White, Tiffin  
 Sharon Elaine Will, Worthington  
 Susan Marie Wolfe, Philo  
 Diane Sheryl Wright, Mt. Vernon  
 Deborah Yun, Columbus

## College of Mathematical and Physical Sciences

Dean: C. William Kern

### Bachelor of Arts

Kimberlea Dianne Andrews, Columbus  
 Mark Allan Rehl, Westerville  
 Thomas Paul Zagore, Euclid

### Bachelor of Science

Matthew Robert Beals, Slingerlands, NY  
 Karen Lee Campbell, Holmdel, NJ  
 Randy David Clepper, Reynoldsburg  
 Jay Lawrence Clifford, Rocky River  
 June Anne Cramer, Lima  
 Diane Lynn Dickerson, Coshocton  
 Brian Charles Friesner, Lancaster  
 John Gavin Fugate, Reynoldsburg  
 Jon Dean Glazer, Columbus  
 Heidi Sue Gottke, Pataskala  
 James Russell Henery, New Lexington  
 Susan Robertson Keiff, Columbus  
 Barbara Jane Lubberger, Middletown  
 Gerardo Carmelo Palumbo, Corning, NY  
 Erwin Thomas Raphael, St. Croix, VI  
 Nancy Kaye Schimpf, New Washington  
 Eyal Shachar, Columbus  
 James Story Shoenfelt, Akron  
 Andrew Larry Swinehart, Nashport  
 Derek Scott Wheeler, Columbia, SC  
 Joo Hee Yoo, Seoul, Korea

## College of Social and Behavioral Sciences

Dean: Joan Huber

### Bachelor of Arts

Elizabeth Catherine Adornetto, Zanesville  
 Maria Teresa Airaldi, Cleveland  
 Betty Jean Alton, Columbus  
 Lisa Michelle Anderson, Upper Arlington

Stephen W. Augenstein, Columbus  
 Joseph Edward Banicki, East Liverpool  
 Tracey Anne Barcus, Mt. Gilead  
 Patrick Joseph Barey, Columbus  
 Gary Steven Beckman, Columbus  
 Melody Lynn Bentley, Columbus  
 Marcia Lynne Boedeker, Columbus  
 Kevin Scott Bollinger, Zanesville  
 Vincent Michael Bonanno, Dayton  
 Suzanne Renee Bonecutter, Shelby  
 Marie Therese Borgner, Canton  
 Sherrie Lynn Bosley, Morral  
 Beth Anne Breece, Johnstown  
 Julie Lynn Brockhage, Cincinnati  
 James Patrick Brown, Lima  
 Brian Alan Bruce, Westerville  
 Mark Edward Bruns, Osgood  
 Kimberly Jo Burchett, West Jefferson  
 Michelle Marie Butcher, Lorain  
 Thomas Robert Castetter, Grove City  
 John Kent Chapman, Columbus  
 Timothy Henry Cole, Lima  
 William Michael Collier, Marion  
 Edward Allen Crockett II, Highland Heights  
 Jennifer Marie Curran, Shaker Heights  
 John Eric Daehler, Columbus  
 Thomas Philip Dauscher, Chardon  
 Stacey Jane Davidson, Columbus  
 Leslie Ann Dever, Pickerington  
 Karen Jane DeWeese, Grandview Heights  
 Diane K. Dodge, Canton  
 David Hugh Dotson, Piqua  
 Stephen Bruce Doucette, Cleveland Heights  
 William A. Dowling, Cleveland Heights  
 Jeffrey Eugene Duermit, Columbus  
 Craig Alan Dunn, Dayton  
 Jennifer Lynn Durst, Dayton  
 Kim Marie Dyer, Delaware  
 Kimberly Marie Edenfield, Austintown  
 James Michael Edwards, Cincinnati  
 John Michael Eveleth, Jr., Fairborn  
 Linda Marie Fair, Millersburg  
 Donald Maurice Farrow, Jr., Washington Court House  
 Debra Ann Flores, Massillon  
 Lisa Ann Foley, Mentor  
 Jason Ray Fought, Nome, AK  
 Erin Lynn Frabotta, Columbus  
 Susan Carolyn Franks, Columbus  
 Andrew Lawson Freid, Cincinnati  
 Richard Paul Gatterdam, Columbus  
 Paul Jeffery Gillan, Maumee  
 Gregg Alan Gillett, Beachwood  
 Jeffrey Todd Gleim, Portsmouth  
 Linda Marie Griffo, Columbus  
 Scott C. Hanson, Columbus  
 Angela Kay Henry, Columbus  
 John Richard Higgins, Baltimore  
 Erik Ohl Hilston, Chardon  
 Eileen Sue Horowitz, Cincinnati  
 Mark James Hovatter, Uniontown  
 Maria Annette Hulshult, Hamilton  
 Lewis Lee Hurst, Mentor  
 Cheryl Lynn Hutchinson, Bellville  
 David Elias Idinopulos, Cincinnati  
 Sujatha Jagadeesh, Columbus  
 Christopher Sean Jeney, Columbus

Tiffany Anne Jezerinac, Dublin  
 Debbie Dee Jobe, Cardington  
 Jennifer Julia Kaechele, Pickerington  
 David Matthew Kall, Lyndhurst  
 Wendy Sue Karr, Carroll  
 John Christian Keller, Westlake  
 Kimberly Ann Klein, Gahanna  
 Patricia Mary Klein, Dayton  
 Paula Christine Knott, Morrow  
 Kristine Elizabeth Kovach, Westerville  
 Annemarie Louise Kuhn, Reynoldsburg  
 Christopher Eugene Lambert, Zanesfield  
 Trishia Ann Langley, Dayton  
 Wendy Alison Lapp, Columbus  
 James Jay LaPrete II, Wintersville  
 Michael Baker Leahy, Columbus  
 Kandi Helise Levine, Columbus  
 Jeffrey Eric Levy, Bexley  
 Linda LeAnne Luffer, Sidney  
 John Carl Loftus, Lockford, NY  
 Brent Eugene Long, Gomer  
 John David Longo, Westerville  
 Leonard Joseph Longo, Hazlet, NJ  
 Paul Scott Lorenzo, Euclid  
 Pauline Jan Loyd, Hinckley  
 John Charles Lyons, Youngstown  
 Paul McCartney, Bexley  
 Nicholas Joseph Malagrecia, Columbus  
 Deanna Margaret Malloch, Kent  
 John W. Mann, Shadyside  
 Kristan Terry Markopoulos, Warren  
 Fiona Dianne Martin, Dayton  
 Karen Louise Martin, Columbus  
 Michael Lee Mason, Cadiz  
 Susan Marie Matthews, Marion  
 David Kinzie McCoy, Findlay  
 Brian Hugh McGinty, Mansfield  
 Daniel Joseph McHugh, Lakewood  
 Karen Sue McLin, Springfield  
 Angela Lynn Miller, Center  
 Julie Beth Millisor, Belle Center  
 Michael David Mohr, Sherwood  
 Colleen Tove Morrow, Elmore  
 Catherine Maria Murphy, Columbus  
 Patrick Brendan Murphy, Akron  
 Sharon Alene Neel, Bradford  
 Linda Ann Niesz, Columbus  
 Daniel Allen Niswonger, Jr., Greenville  
 Wendi Sue Norris, Dublin  
 Suzanne Elizabeth O'Lenic, Columbus  
 Lori Lynne Ogle, Columbus  
 Renée M. Parisi, Powell  
 Timothy James Parsons, Upper Arlington  
 Albert M. Pecora III, Wakeman  
 Caroline Marie Pejeau, Columbus  
 Steven Alden Philabaum, Coshocton  
 Timothy Brooks Phillips, Crestline  
 Richard Scott Potter, Johnstown  
 Karen Christine Quiglian, Columbus  
 Molly Sue Ramsey, Powell  
 Robert Allen Rauch, Mayfield Village  
 Kevin William Rawlins, Garfield Heights  
 Regina Marie Redd, Columbus  
 Julie Lynne Reed, Wilmington, NC  
 Eva Corinne Ritzmann, Cleveland  
 Laura Elizabeth Rouse, Cincinnati  
 Joseph Bradley Roush, Marion  
 Thomas Carroll Rubey, Centerville  
 Gregory Darrell Ruckel, Bucyrus

Kimberly Ann Salerno, South Euclid  
 Allana Marie Salimbene, Waterford  
 Cheryl Ann Sams, Tiffin  
 Marianne F.O. Sanders, Columbus  
 Michael Charles Schiefer, Worthington  
 Jeffrey David Schrepferman, Centerville  
 Lynn Marie Schuckies, Columbus  
 James Joseph Shaheen, Delaware  
 Lesley Carol Sheppard, Parma  
 Marshall Allan Siegel, South Euclid  
 John William Siegle II, Columbus  
 Rodney Phillip Simon, Beachwood  
 Terrence Scott Sirb, Amherst  
 Julia Elizabeth Slater, Millersport  
 Pauline Beth Slattery, Mentor  
 Robert Louis Smigel, Jr., Rocky River  
 Pamela Ann Smith, Columbus  
 Randal Leland Smith, Jackson  
 Heather Allison Sonewald, Kiriland  
 John Henry Starp II, Mayfield Heights  
 Lori Ann Steele, Pickerington  
 Peter Simon Stern, Shaker Heights  
 Carol Rae Strasshofer, Chagrin Falls  
 Ursula Ann Sullivan, Highland Heights  
 Glen Wayne Sutcliffe, Adelphi, MD  
 Kent Dean Tüger, Lubbock, TX  
 Richard Nolan Tillman, Dayton  
 Suzanne Clare Waller, Cincinnati  
 Lorri May White, Urbana  
 Randall Bruce White, Worthington  
 Steven Charles Wiclaw, Ravenna  
 Steven Henry Wierman, Canal Winchester  
 Kevin Allen Williams, Pickerington  
 Robin Marie Wood, Reynoldsburg  
 Tracie Helen Wood, Astrander  
 Brian Scott Young, Columbus  
 Jamey Katherine Zborowski, Columbus  
 Nicholas Anthony Zeyen, Columbus  
 Mitchell E. Zlotnik, Cleveland

## Bachelor of Science

Nicole Marie Adimey, Kettering  
 Marcus Brown, Tiffin  
 Brian James Burson, Columbus  
 Heidi Marija Carman, Gallipolis  
 Susanne Crabtree, McDermott  
 Curtis John Dynda, Parma  
 Thomas Charles Eisele, Bexley  
 Timothy Joseph Feldman, Columbus  
 Mark Edward Frazier, Mt. Gilead  
 Keith Bernard Key, Pittsburgh, PA  
 Sharon Lynn Kruse, Ottawa  
 Wesley Voris Lafferty, Brandon, FL  
 Brian David MacLeod, Worthington  
 Gerald Andrew McGinty, Mentor  
 Joseph Andrew Mlachak, Cleveland  
 Judy Nygate, Worthington  
 Karen A. Orts, Monroe  
 Donald Scott Powell, Wheelersburg  
 Christopher Paul Renkel, Fairview Park  
 Joan Marie Schmelzer, Rushville  
 Jay Michael Schulman, Columbus  
 William Aitken Turner III, Columbus  
 William Ward Whittenberger, Jr., Youngstown

Gregory Lee Williams, Atlanta, GA  
 Douglas Clark Zimmerman, Boca Raton, FL

## School of Journalism

### Bachelor of Arts in Journalism

Benedict Nicholas Bahner, Columbus  
 Erik Thomas Battenberg, Columbus  
 Holly Marie Bednar, Dublin  
 Deborah Lynn Bernard, Bentleyville  
 Lisa René Blanchard, Avon Lake  
 Erin Patricia Buzas, Upper Arlington  
 Andrew Thomas Byerly, Columbus  
 Bryan Patrick Camella, Sandusky  
 Jacqueline Margaret Carletti, Upper Arlington  
 Lisa Anne Chiofolo, Canton  
 Denise Lynn Clark, Toronto  
 Bonnie Kay Cox, Fredonia, KS  
 Susan Marie Davis, Reynoldsburg  
 Paula Sue Dougherty, St. Clairsville  
 Amy Michelle Drake, Upper Arlington  
 Michele Ann Frye, Mt. Sterling  
 Traci Lynn Gable, Springboro  
 Christopher Anthony Garofoli, Shaker Heights  
 Bradley Thomas Gecowets, Waverly  
 Barbara Lynne Gerber, Lyndhurst  
 Jeffrey John Gold, North Canton  
 Shirley Patricia Gooding, Columbus  
 Judy Ann Graef, Akron  
 Ross N. Green, Chagrin Falls  
 Mary Ellen Gress, Austin, TX  
 Erika Beth Hanson, Columbus  
 Kevin John Havens, Worthington  
 Kristen Sue Hayes, Grove City  
 Catherine Stewart Hubben, Columbus  
 Mary Elizabeth Jacobs, Rutland  
 Brian David Jaffe, Pepper Pike  
 Tracy Lou James, Magnolia  
 David Francis Kabealo, Columbus  
 Jill Elayne Kania, Mansfield  
 Joseph Scott Karoscik, Lancaster  
 Lori Ann Kozey, Berea  
 Karen Ann Krubl, Centerville  
 Susan Yvette Lee, Dayton  
 Ronald James Lewis, Massillon  
 Charles Mamula, Hoffman Estates, IL  
 Barry Charles McDonald, Columbus  
 John Allen McElfresh, Fazeysburg  
 Thomas John McHale, Webster, NY  
 Leslie Gail Mendelsohn, Hastings-on-Hudson, NY  
 Dean Gregory Moore, Cincinnati  
 Beverly Ann Murphy, Gahanna  
 \*Mary Louise Ertl Murray, Columbus  
 Steven Newman, Columbus  
 Long Ky Nguyen, Columbus  
 Erinn Shalene O'Brien, Columbus  
 Stephen Hyle Ohlemacher, Columbus  
 Jeane Christine Panik, Medina  
 Jeffrey Scott Phillips, Dayton  
 John Edward Powell, Jr., Newark  
 John Clifton Pribble III, Columbus

\*Awarded posthumously

Hallie Jane Reed, Painesville  
 Scott Alan Reisz, Westlake  
 Halli Bena Roth, Mayfield Heights  
 Edward Carl Schaefer II, Columbus  
 Margaret Lynn Schryver, McLean, VA  
 Jay Michael Schulman, Columbus  
 Susan Marie Sedlacek, Delaware  
 Cheryl Lynn Sievert, Huntsville, AL  
 Amy Lynn Snow, Fayette  
 Carl William Swisher, Columbus  
 Timothy Alan Taylor, Bay Village  
 Kristy Diane VanKoughnet, Toledo  
 Lynn Wagner, Columbus  
 Steven Patrick Watson, West Carrollton  
 Katherine Anne Watts, Westerville  
 Mark Alan Wolbert, Bay Village  
 Lois Teresa Wright, Columbus  
 Susan Lynn Yaroma, Westlake

## College of Agriculture

Acting Dean: J. Robert Warmbrod

### Bachelor of Science in Agriculture

Scott Thomas Adkins, Laurel, MD  
 Andrew Thomas Affeldt, Worthington  
 Joel Edward Althausen, Kenton  
 Denise Lynn Bailey, Galena  
 E. Roger Banks, Franklin  
 Christi Lynn Bentley, Sabina  
 Lisa Ann Berg, Dalton  
 James William Brasee, Columbus  
 Stephen McCormick Brooks, Toledo  
 Bernadette Ann Bruening, Yorkshire  
 Shaun Howard Cotterill, Bellevue  
 Guy Robert Cutler, Columbus  
 Timothy John Czartoski, Ney  
 James Douglas Dear, Columbus  
 Lisa Marie Dovin, Oberlin  
 Doreen Marie Dudek, Columbus  
 Brian Paul Easton, Cincinnati  
 Leslie Rachel Elliott, St. Marys, WV  
 Robin Lynn Felton, Carrollton  
 John Robert Fisher, Mansfield  
 Richard Lee Fisher, Wapakoneta  
 Alan Craig Garmatter, Rawson  
 John Joseph Gasper, Worthington  
 Christopher Glen Gerber, Whipple  
 Michael Thomas Gibbs, Bellevue  
 James Alan Ginther, Chillicothe  
 Meta M. Goodwin, Dublin  
 Martin Earl Hall, London  
 Paul Edward Harris, Chagrin Falls  
 Mark Clair Hartman, Rawson  
 Cindy Arlene Hefner, Lima  
 Steven Edward Hersherberger, Troy  
 Julie Michele Hines, Wooster  
 Lamar Lee Liming, Mineral Ridge  
 Roger Allen Luhning, Sycamore  
 Shelly Dee Maurer, Zoar  
 Shawn Allan McCarty, Kingston  
 Matthew Wayne McCluer, Lima  
 Lisa Muliani, Columbus  
 Bruce A. Oberlittner, Kenton  
 Randy Robert Samko, Columbus  
 Jane Marie Schmucker, Wooster



Scott William Sessler, Sandusky  
 Larry Eugene Shaffer, Springfield  
 Kent L. Sholder, Lebanon  
 Wayne Dale Shriver, Pleasant City  
 Brian Eugene Simpson, Shelby  
 Eric James Slater, Paris  
 Wayne Randall Smith, Jr., Lake Milton  
 Gary Paul Suelter, Grove City  
 Brent Alan Swackhamer, Laurelville  
 Amanda Jeanne Talmadge, New Lebanon  
 Barry Joe Woodworth, South Vienna

## **Bachelor of Science in Food Science**

Paul Michael Gigliotti, Amherst  
 Antoinette Sue Williams, Youngstown

## **Bachelor of Science in Food Technology**

James Kenneth Watts, Massillon

## **School of Natural Resources**

### **Bachelor of Science in Natural Resources**

Jeffrey Scott Bender, Fremont  
 Daniel Ernest Burnett, Chardon  
 Stephanie Lynn Davidson, Columbus  
 Brian McCormick Davis, Dayton  
 Michael Scott Faler, Jackson Center  
 Diane Elaine Fitzgerald, Westerville  
 Jennifer Byerly Grusenmeyer, Beavercreek  
 Stacy Lynn Katz, Columbus  
 Darryl Eugene Kosten, Euclid  
 Holly Beth Proudfoot, Centerville  
 Scott Michael Staut, Columbus  
 Bruce Richard Taylor, Lebanon  
 Gary Raymond White, Zanesville

## **Agricultural Technical Institute – Wooster**

### **Associate in Applied Science**

Philip Darr Birney, Jewett  
 Roy Edward Burdette, Akron  
 Timothy Neil Dayton, Carrollton  
 Jonathan L. Floyd, Springfield  
 Michael Allen Geary, Galion  
 Steven J. Gerber, Kidron  
 Robert K. Gray, Stow  
 Rhonda Jo Harman, McConnelsville  
 John P. Kelling, Elyria  
 James Russell Kiko, Jr., Paris  
 Steven Edward Lantz, Newark  
 Christopher James McDonnall, Delta  
 Thomas Lee Mercer, Waterford  
 Annette Marie Michael, Fremont  
 Pamela Michelle Pojman, Columbia Station  
 Richard Allan Repp, Massillon

Randall Wayne Ruckel, Mansfield  
 Thomas Scott Ruh, Vermilion  
 Gretchen Ann Sieferth, Randolph  
 Mark A. Stackhouse, Ashland  
 Susan Marie Szabados, Macedonia

## **College of Business**

Acting Dean: Astrid E. Merget

### **Bachelor of Science in Business Administration**

Sherry Diann Adams, Chesterville  
 John P. Agdinaoy, Brecksville  
 Alisa Alaudini, Worthington  
 Bryan James Allen, Cambridge  
 John Gerard Amorosso, Reynoldsburg  
 Ann Christina Anstatt, Vincent  
 Mark Anthony Arms, Columbus  
 Daniel Dale Armstrong, Coshocton  
 Todd Paul Armstrong, Shelby  
 William Allen Arnold, Upper Sandusky  
 Steven Scott Arsulic, Ashtabula  
 Sharon Ann Atkins, South Euclid  
 Robert Michael Atkinson, Columbus  
 Keith Michael Aulby, Lima  
 Michael Richard Aulino, Akron  
 Mary Yvette Austin, Columbus  
 Binu K. Bagga, Columbus  
 April Lynn Balent, Granville  
 Jeri Ann Ballard, Nashport  
 Kim DeVera Banez, Columbus  
 Elizabeth Ann Barclay, Daytona Beach, FL  
 Romy Alix Barden, Mentor  
 Kevin Blake Barnes, Dublin  
 Michael Charles Barnes, Marietta  
 Amy Lynne Bauml, Antwerp  
 Nadeem Bawani, Columbus  
 David Beaumont, Detroit, MI  
 Robert McNees Bell, Jr., Centerville  
 Randi Scott Bellner, Maumee  
 Brian Patrick Benyo, Austintown  
 Beth Ann Bickley, Sandusky  
 Brenda S. Blankenship, Marion  
 John Christopher Blubaugh, Columbus  
 David M. Bognor, North Ridgeville  
 Mary Janine Bova, St. Davids, PA  
 Donald Eugene Bowen, Jr., Columbus  
 Linda Ann Brauer, Vincent  
 Christina Marie Brown, Thornville  
 James Donald Brown, Avon Lake  
 Paul E. Brown, Mechanicsburg  
 Jeffrey Stuart Byron, Worthington  
 Rhonda L. Cain, Minster  
 Patrick Anthony Cartellone, Highland Heights  
 Yao Chang, Kaohsiung, Taiwan, R.O.C.  
 Cindy Y. Cheng, Hong Kong  
 Nicholas Mario Chirico, Mansfield  
 Karen L. Chism, Columbus  
 Chai Chong Chuah, Taiping, Malaysia  
 Joseph Richard Clay, Columbus  
 James Brian Cleary, Medina  
 William Joseph Cleary, Columbus  
 M. Andrew Cody, Westerville  
 Mark William Colasante, Chesterland

Tim A. Colburn, Waterville  
 Elciea Lynn Cole, Toledo  
 Anthony Scot Collins, Lima  
 Joan Maureen Collins, Hilliard  
 Pamela Jean Collins, Concord Township  
 Michael David Conkel, Chillicothe  
 Manuel Umali Corpus, Jr., Columbus  
 Kevin M. Coyne, Mentor  
 Seth Michael Cramer, Litchfield, CT  
 David H. Crosthwaite, Columbus  
 Mouaz R. Daboul, Amman, Jordan  
 Todd William Dailey, Chillicothe  
 Stephen Huy Dang, Columbus  
 Joseph Christian DeGrandi, Fairfax, VA  
 Jeffrey Allen Dennis, Columbus  
 Daniel Dobres, Mayfield Heights  
 Jeffrey Robert Donaldson, Columbus  
 Gregory Thomas Downie, Shelby  
 Melanie Lynn Doyle, Urbana  
 Timothy Richardson Dreyer, Huron  
 Harry Charles Drew, Ravenna  
 Sean Patrick Dunn, Gadsden, AL  
 Darlene Ann Dynia, Seven Hills  
 Dawn Dzewicki, Kirtland  
 Jeffrey Allan Ehlers, Tiffin  
 Nick E. Elia, Elyria  
 Tang-Liang Er, Muar, Johore, Malaysia  
 Kevin Ray Evans, Mt. Gilead  
 Gregory Crawford Fail, Massillon  
 Timothy Russell Fettes, Cambridge  
 Patrick Robert Fitch, Chesterland  
 James S. Fitzgibbon, Pittsburgh, PA  
 Kelly Renée Flanagan, Newark  
 Robert Eric Fleming, Stow  
 Patricia Mary Kathleen Flinn, Grandview Heights  
 Mark D. Ford, Warren  
 Stephen Douglas Foster, East Palestine  
 Robert James Franczek, East Liverpool  
 Christopher Neville Gatt, Sliema, Malta  
 Robert L. Gilliam, Groveport  
 Joseph Matthew Gillotti, Lima  
 Edward Patrick Gilroy, Powell  
 Theodore Christos Glavas, Athens, Greece  
 Karen Ann Golinar, Euclid  
 Mark David Grass, Lima  
 Gary Lee Green, Loveland  
 Lucretia Ann Griffith, Newark  
 Mark Alan Grube, Defiance  
 Kristine Kay Gutheil, Grove City  
 Graham David Guthrie, Columbus  
 Jonathan Guzman, Puerto Cortes, Honduras  
 Scott Donald Halliday, Bay Village  
 John Christopher Hanley, Worthington  
 Tonya Marie Harestad, Huber Heights  
 Tamara K. Heiby, Celina  
 Barron Keith Henley, Beavercreek  
 Kevin Daniel Hermann, Cleveland  
 Steven Paul Hewitt, Canal Winchester  
 Lisa Marie Hickman, Worthington  
 Joseph Edwin Hiestand, Hillsboro  
 Valerie Linn Hinton, Marion  
 David Howard Hissong, Akron  
 Richard L. Hix II, Marion  
 Larry Dale Holter, Pickerington  
 Diann Lynn Howenstine, North Canton  
 Michael Douglas Hughes, Worthington  
 Clark George Huskey, Gahanna

Dale Edward Hutchison, East Palestine  
 Joseph Frank II Vento, Westerville  
 John T. Irmischer, Celina  
 Robert Peter Jacino, Dublin  
 Kathleen Diane Jacobec, Lakewood  
 Matthew Harlan Jeffers, Columbus  
 Dennis Carl Jensen, Graytown  
 Carl Richard Johnson, Ashtabula  
 Dwayne Sherman Johnson, Groveport  
 Jeffrey Mark Johnson, Perrysburg  
 David Allen Jolliff, Columbus  
 Scott Lincoln Kaser, Dover  
 Jeffrey T. Keller, Thornville  
 Barbara Ellen Kercsmar, Middletown  
 Jacqueline Dawn Kick, Lexington  
 Robert John Kisler, Chillicothe  
 Andrew John Klatt, Toledo  
 Leslie T. Klevay, Columbus  
 Douglas Charles Knox, Lancaster  
 Douglas Steven Koch, Avon  
 Teemu R. M. Kolehmainen, Helsinki, Finland  
 Judith Kaye Kolikohn, Columbus  
 Vasilios Emanuel Kourtis, Warren  
 Steven James Kozlowski, Columbus  
 Michael William Kreider, Mt. Gilead  
 James Joseph Kuhn, Canal Winchester  
 Darrin R. Lane, West Chester  
 Cynthia Jo Lang, Loudonville  
 Kimberly R. Latham, Powell  
 Linda Suzanne Lee, Dublin  
 David Frank Levin, Columbus  
 Mia Maurine Lewis, Middletown  
 David John Lincoln, Cleveland  
 Stephen Chris Linder, Grove City  
 James Michael Lisko, Worthington  
 Brian Douglas Long, Lancaster  
 Quyen Vy Lu, Columbus  
 Ralph David Lucas, Upper Arlington  
 Brian Todd Luse, Marion  
 Douglas Michael Lynch, Columbus  
 Nicholas Madias, Jr., Fredericktown  
 Tina Marie Mangia, Columbus  
 Gregory August Marietti, Worthington  
 W. Scott Martin, Dublin  
 John Thomas Matushoney, Chillicothe  
 David Blaine McAllister, Athens  
 Robert Emmet McCarthy, Florham Park, NJ  
 Patricia Anne McCarty, Dalton  
 Jonathan Stewart McCaughan, Columbus  
 Debra Kay McClanahan, Shell Rock, IA  
 Mark Andrew McHenry, Heath  
 Kristina Louise Menden, Perrysburg  
 John Thomas Mendicino, Upper Arlington  
 Konstantia Angela Metsika, Columbus  
 Lisa Ellen Miller, Columbus  
 Michael Richard Miller, Spencerville  
 Ronald Larry Mitchell, Ostrander  
 Amy Lynn Moellenkamp, Wapakoneta  
 James B. Moore, Jr., Enon  
 Ann Louise Moorehead, Newton Falls  
 Julie Ann Morgan, Mogadore  
 Daron Randall Morris, Columbus  
 Kevin Richard Mortimer, Grove City  
 Kurt Howard Mucharsky, Dublin  
 Ronald Bruce Munger II, Worthington  
 Michael J. Murphy, Lakewood

Jeffrey Scott Murray, Shelby  
 Cheryl Ann Neider, Cleveland  
 Lisa Monica Newell, Ashland  
 Michael Reed O'Connor, Columbus  
 Mary Anne O'Reilly, Columbus  
 Julia Karen Olive, Centerville  
 John Patrick Pamer, Cuyahoga Falls  
 Amy Lynn Pampuch, Worthington  
 Edgar Scott Parks, Highland Heights  
 Angela Kaye Payne, Columbus  
 James Allen Peppercorn, Pepper Pike  
 Anthony Joseph Petrocelli, Kettering  
 Cara Elizabeth Phillips, Columbus  
 Pamela Jean Piascik, Hudson  
 Richard James Plummer, Perrysburg  
 Jennifer Maxine Poole, Athens  
 Mark William Prevost, Lancaster  
 John Charles Prokup, Perrysburg  
 Gary Francis Raab, Sylvania  
 John Bernard Radcliff III, Circleville  
 Lora Ann Ramey, Columbus  
 Andrew Patrick Redmond, Columbus  
 Katherine Mary Redmond, Fredericktown  
 Carmen Sofia Reverendo, Cleveland  
 Steven L. Riley, Mechanicsburg  
 Derek Scott Ritchie, Oconomowoc, WI  
 David Anthony Rivers, Brunswick  
 Scott Allen Robinson, Westerville  
 Kevin Fredrick Robison, Dublin  
 Grace Ann Rocci, Columbus  
 Anthony Lewis Rogers, Columbus  
 Linda Ann Rollefson, Parkersburg, WV  
 Randal I. Rombeiro, Reynoldsburg  
 Jean A. Rothhaar, Willard  
 Paul Michael Rotolo, Columbus  
 Dean Michael Russ, Galion  
 Terry James Russell, Delaware  
 Andrew Patrick Sand, Canton  
 Carole Rosanna Sanders, Fairfield  
 Jodi E. Sandler, Highland Heights  
 Denise Marie Sawicki, Edison, NJ  
 Susan Marie Sawyer, Pepper Pike  
 Gabrielle Antonia Schiller, Columbus  
 Jeffrey L. Schirm, Peachtree City, GA  
 John David Schuman, Dublin  
 Guy William Self, Millersburg  
 Greg P. Senkiw, Dayton  
 Laura D. Severson, Springfield  
 Steven James Shane, Lancaster  
 Sathya Shanmugam, Mt. Vernon  
 Sheryl Ann Shaw, Warnock  
 Dean Allen Shinnars, Wauseon  
 Douglas F. Shymske, Nova  
 Marie Therese Sichel, Columbus  
 Neelam Singh, Toledo  
 Sharon Valencia Singletary, Miami, FL  
 Tammy Joy Siss, Columbus  
 Mary Diane Sliemers, Columbus  
 John William Slyh, Sidney  
 David Mitchell Smiley, Delaware  
 John Frederick Smiley, Columbus  
 Henry M. Smith, Jr., Lorain  
 Melissa Kay Smith, Eaton  
 Randy E. Smith, Fairview Park  
 Andrea Michelle Smuland, Cincinnati  
 Douglas A. Spodak, Bethesda, MD  
 Jeffrey Allen Sprock, Mentor  
 Joel F. Staich, Mansfield  
 Alexander Staral, Oconomowoc, WI

Joseph Andrew Staysniak, Elyria  
 Jack Patrick Stidham, Shelby  
 Tyler Cameron Strobel, Akron  
 Jerry Craig Strohacker, Dresden  
 Bryce Ronald Stutzman, Zanesville  
 Margaret Ann Suffoletta, Toronto  
 Denita Jean Sutter, Pataskala  
 Gregory Adam Sutton, Galion  
 Scott Thomas Hites Sutton, Hilliard  
 Robert James Taglione, Columbus  
 Michelle Elizabeth Talbott, Barnesville  
 Boon Leng Tan, Kluang Johore, Malaysia  
 Jeffrey Allen Tatem, Beaver Creek  
 R. Crit Thomas, Yellow Springs  
 Max Thomas Thompson, Mansfield  
 Bradley Scot Trainer, Alexandria  
 Michael David Trettel, Erie, PA  
 Erin Michelle Trimble, Jackson  
 Fred Eugene Trusty, Beaver Creek  
 Anthony Lawrence Venetta, Warren  
 David Evan Vernon, Akron  
 Bret Allan Vinocur, Mayfield Village  
 Paul Xavier Vollmer, Bexley  
 Matthew Douglas Wakser, Cleveland  
 Gina Dianne Walker, Hillsboro  
 Stephen Gregory Warth, Chillicothe  
 Gary Copeland Way, Bay Village  
 Teresa M. Wehmeyer, Wapakoneta  
 William Charles Wertz, Cleveland  
 James F. Whalen, Lyndhurst  
 Colleen Elise Whelan, Sylvania  
 Daniel R. Whitney, Westerville  
 Joseph Patrick Williams, Columbus  
 Timothy Joseph Wimsatt, Sellersburg, IN  
 Fritz Thomas Wink, Marion  
 Donald Edward Woodford, Bedford, MA  
 Rachel Eileen Wuertz, Delaware  
 Karen Elaine Yantis, Westerville  
 Stephen Yee, Columbus  
 Michael David Young, Galion  
 Stephanie Young, Cleveland  
 Daniel P. Zink, Canton  
 Sygalit Sara Zwilling, Cleveland Heights  
 Michelle Maria Zwissler, Worthington

## College of Dentistry

Dean: William R. Wallace

## Doctor of Dental Surgery

Brian Glenn Dunlap, Kettering  
 B.S.

## College of Education

Dean: Donald P. Anderson

## Bachelor of Science in Education

Renee Louise Allen, Waverly  
 Angela Lynn Angus, Grove City  
 Julia Lynn Appel, Worthington

Matthew John Augustine, Cleveland Heights

Raymond Eric Baker, Bellbrook  
Kristine Diane Baran, Concord Township  
Dawn Malynn Bentley, Bucyrus  
Diane Frances Berman, Columbus  
Brian David Bertsch, Coram  
Teresa A. Bradford, Columbus  
Patricia Lou Brewer, Worthington  
Theresa Marie Burke, Bridgeport  
Cassandra Irene Casto, Mansfield  
Alyssa Marguerite Chellis, Columbus  
Marina Rae Cheney, Grove City  
Eric Todd Christman, Columbus  
Lisa Ann Cline, Millersburg  
Stephen Michael Coffey, North Fairfield  
Ronald Edward Crowell, Norwalk  
Patricia Ann Cunningham, Lima  
James Allan Davis, Columbus  
Judy Kay Deaver, Newark  
Joy Dettorre, Lorain  
James Douglas DeYoung, Shaker Heights  
Mary Ann Douglas, Columbus Grove  
David Michael Draper, Whitehall  
Joel Alan Eisenstein, Bexley  
Tamara Ekis, Westerville  
Mildred Loretta Forté-Thomas, Columbus  
Margaret Mary Fox, Worthington  
Terri Ann Fox, Shelby  
Ronald Lee Fuller, Smithville  
Stefanie Hope Furllett, Calabasas Park, CA  
Jeri Lynn Gabor, Mansfield  
Tanya Gabriele, Fowler  
Pamela Jill Garey, Delaware  
Ronald Theo Garrison, Columbus  
Marion Frances Garvin, Columbus  
Kevin B. Gehres, Wren  
Kimberly S. Giles, Mt. Vernon  
Deborah Amy Goldstein, Elyria  
Norma Elaine Graham, Westerville  
Ann M. Groscoast, Sandusky  
James Elmer Gutzman, Berea  
Deborah Faye Guyer, Lima  
Wendy Sue Harmon, Cincinnati  
Linda Susan Heald, Utica  
Mitchell E. Henke, Mansfield  
Michelle Renae Hicks, Portsmouth  
Michael Alan Hill, Columbus  
Nancy Louise Hobson, Columbus  
Kurt Thomas Hofelich, Pittsburgh, PA  
Melinda Kay Hudson, Jamestown  
Linda Kaler Jennings, Ashland  
Laura Beth Johnson, Columbus  
Lacraasha Jean Johnston, Greenwich  
Brian Kenneth Jones, Columbus  
Katherine Kalbous, Worthington  
Michelle Ann Keiter, Columbus  
Sarah Bletner Kelley, Columbus  
Joseph Lee Kikume, Apple Creek  
Mindy Beth King, Ashland  
David Curtis Koger, Monroe  
Phyllis Jean Laman, Lima  
Michele Monique Lamarre, Strongsville  
Jodene Ann Landin, Fort Jennings  
Brian W. Lee, Mansfield  
Monica Carol Ludwick, Mansfield  
Michael Joseph Lutz, Leetonia  
Jennifer Lynn Madden, Grove City  
Pamela Marie Marek, Parma Heights

Cheryl Ann Mavec, Eastlake  
Susan E. McCrary, Gahanna  
Michael Juey McCray, Dayton  
Robert Allen McFee, Willoughby  
Jennifer Ann McVicker, Mansfield  
Dianne Marie Memmer, Cleveland  
Michele Ann Miller, Columbus  
Eric Todd Mosley, Grove City  
Dana Lynn Mossor, Worthington  
Donna Louise Mynes, Zanesville  
Charles F. Narcross, Columbus  
Karen Diane Norman, Shelby  
Gabrielle Marie Onesto, Columbus  
Barbara Ann Pfaff, Willard  
Kathleen Faye Poyar-Foglio, Rome  
Kyle Adam Purpura, Portsmouth  
Jeffrey David Radebaugh, Elida  
Kimberly Ann Rea, Chagrin Falls  
Jennifer Joan Reardon, Galloway  
Michael William Reulbach, Bay Village  
Harry Lee Reynolds, Akron  
Amy Su Ann Romey, Bluffton  
Michelle Elaine Russell, Mansfield  
Diane Nicole Salemi, Lyndhurst  
Kathryn Ann Sanderson, Westerville  
Kathy Marie Schivinski, Mansfield  
Suzanne Lynn Seiwert, West Chester  
Beth Ann Senich, Morrisville, PA  
Joan Elizabeth Snedeker, Columbus  
Kay Ann Spellman, Columbus  
Susan A. Stein, Mansfield  
Elizabeth Jane Swick, Mansfield  
Sarit Denise Thomas, Columbus  
Celeste Ann Toth, North Ridgeville  
Patty E. Trabue, Columbus  
Kevin D. Varnish, Columbus  
Kelly Terese Vezdos, Avon Lake  
Gregory Dubs Voss, Bellvue  
Donald Leigh Wagner, Ashland  
Michael Todd Wallace, Westerville  
Michele Rene Watkins, Radnor  
Gary L. Westfall, Columbus  
Richard Alan Wickiser, Columbus  
Helen Hoff Widman, Pataskala  
Debbie Jo Marion Wiegand, West Seneca, NY  
Patricia Lynn Williams, Ashland  
Steven Michael Wittler, Ottoville  
Robert James Young, Gahanna

**Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts**

## College of Engineering

Dean: Donald D. Glower

### Bachelor of Science in Aeronautical and Astronautical Engineering

Joel Edward Dawe, Lima  
Arthur John Hulsman III, Strongsville  
David Scott Miklosovic, Cleveland  
Steven Arthur Walters, Cincinnati

### Bachelor of Science in Agricultural Engineering

John Eric Brim, Findlay  
Jeff Geuy Davidson, Sidney  
Edward Wescot Sarle, Worthington  
Bryan James Schmucker, Louisville  
Kenna Marie Specht, Conneaut

### Bachelor of Science in Aviation

Laura Mary Antalick, Lynnfield, MA  
Carlet Carl Auguste, Jersey City, NJ  
Michael Robert Baur, Westerville  
William John Billingsley, Cumberland, MD  
Margaret Marie Daflucas, Salem, OR  
Robert Lee Donner, Jr., Mt. Gilead  
Kathleen Ellen Gappa, Orland Park, IL  
Dale Edward Gelter, Russellville  
James Malcolm Irvine, Plymouth, MI  
Steven Eric Kerchner, Bedford  
Hilario Fusilero Mora, Lorain  
Christopher John Pawlowski, Columbus  
Andrew Hall Stephan, Upper Sandusky  
David Edward Wall, Medina  
Malcolm A. Warren III, Lebanon, PA

### Bachelor of Science in Ceramic Engineering

Anna Diane Chlosta, Fremont  
Crispino DiRuggiero, North Olmsted  
Lynne Renee Edmondson, Garfield Heights  
Richard Charles First, Parma  
Andrew Glaser, Newport, RI  
Thomas Allen McInerney, Madison  
Sydney Edward Robinson, Columbus  
Brian Gene Ruppel, Akron

### Bachelor of Science in Chemical Engineering

Pedram Alaadini, Iran  
Scott Lee Buckland, Marietta  
Aileen Susan Chou, Akron

### Bachelor of Science in Civil Engineering

Barry John Bauer, Worthington  
Andrew Sheldon Beard, Lancaster  
Michael Ervin Beaver, Columbus  
Thomas William Commager, Columbia, MO  
Julie Ann Donovan, Toledo  
Gregory Thomas Giamo, Oregon  
Raymond A. Hahn, Jr., Pittsburgh, PA  
Jacqueline Dominica Kline, Tallmadge  
Ronald Scott Kramer, Jr., Loveland  
Ronald Martin Makee, Fairport Harbor  
Michael Allan McColeman, St. Clairsville  
Margaret Arens Norris, Lancaster

David J. Pollock, Hinckley  
 Thomas Peter Riegel, Columbus  
 Thomas Leslie Rozsits, Chesterland  
 Kurt Joseph Swarts, Piqua  
 Geok Kueh Tan, Malacca, Malacca  
 Ek Tay, Johor Baru, Malaysia

### **Bachelor of Science in Computer and Information Science**

Aish Ali Al-Nassiry, Sana'a, Yemen  
 Fritz Darrell Baugess, Grove City  
 Michael Alan Brooking, Columbus  
 David Edward Bukovinsky, Columbus  
 Iyes Dendeni, Tunis, Tunisia  
 M. Mostafa Haykal, Damascus, Syria  
 Kimberly Ann Holderman, Woodsfield  
 Henry Simon Kalouche, Jounieh, Lebanon  
 David John Kenney, North Canton  
 Joseph Thomas Kinsella, Columbus  
 Tamara Elizabeth Michel, Sandusky  
 Ellen Doris Mok, Columbus  
 Richard Patrick Monahan, Kenosha, WI  
 Tobias Day Oswald, Bolivar  
 William Columbus Owens, Jr., Toledo  
 Amit Ray, Lancaster  
 Daniel Joseph Rhine, Lima  
 Denise Michelle Schwartz, Beavercreek  
 Langdon Edward Whittington, Newark  
 John Thomas Williamson, Irondale  
 Ronald Curtis Yakubek, Rowlett, TX

### **Bachelor of Science in Electrical Engineering**

Christopher John Abel, Parma  
 Michael Jack Agosta, Circleville  
 Nitin Yogendra Bhatt, Westerville  
 James Richard Bibbo, Cincinnati  
 Geoffrey Marhsall Cox, Columbus  
 Sri Rachmani Darmawaskita, Malang, Indonesia  
 Tracy Lee Elswick, Wheelersburg  
 Steven Donald Gheen, Casstown  
 Latonya Lynn Harris, Columbus  
 Carmen Alicia M. Hernandez, El Salvador  
 Brian Jay Hollaway, Columbus  
 Charlene Louise Hopkins, Beavercreek  
 Mark Owen Johnson, Willoughby  
 Thomas Edward Little, Shadyside  
 Michael Teik-Aun Loy, Penang, Malaysia  
 Sanjay Megada, Cincinnati  
 Dale John Mortensen, Brook Park  
 Jens Munk, Columbus  
 Jonathan Edward Otermat, Fremont  
 Anthony Duane Philipp, Findlay  
 Richard Joseph Schuman, St. Leon, IN  
 Harry Russell Scott III, Columbus  
 Andrew K. Shang, Huber Heights  
 Tulika Sinha, Norton, MA  
 William Joseph Smart, Chillicothe  
 David Harold Smith, Marion  
 Tracy Robert Spitler, McCutchenville  
 Ronald William Stroup, Shelby  
 Michael Lee Tappan, Delta  
 Umesh S. Vazirani, Worthington

Martin Lloyd White, Columbia, PA  
 Daniel Thomas Zambory, Chardon

### **Bachelor of Science in Engineering Physics**

Wesley Geunhyuk Chang, Worthington  
 Stuart Kevin Taylor, Columbus  
 Kristen Michelle Tormala, Westlake  
 Randall James Warren, Westerville

### **Mechanical Engineer**

Juan Carlos Gonzalez, Villanueva,  
 Torreon Coahvilla, Mexico

### **Bachelor of Science in Mechanical Engineering**

Faour Hussein Alfaour, Beirut, Lebanon  
 Christopher Lee Brandly, Eaton  
 John Richard Cole, Worthington  
 Donald Arthur Demuth III, Gates Mills  
 Jeffrey James Fisher, Circleville  
 Louie Garcia, Defiance  
 Patrick Michael Gibson, Columbus  
 Eric Shawn Goudy, Van Wert  
 Mark Kevin Gwinn, Newark  
 Majdi S. Habbal, Saidra, Lebanon  
 Adam Herbert Hinton, Berea  
 Stephen James Huggins, Bexley  
 Robert Howard Johnston, Wooster  
 Glenn Arthur Kaufman, Ottawa  
 Chin-Poh Lim, Kuala Lumpur, Malaysia  
 Matthew Douglas Marks, Albuquerque, NM  
 Michael Daniel Matthews, Columbus  
 Randal Joseph May, St. Henry  
 Patrick Anthony McManus, Kettering  
 Jerold Eugene Morton, Galion  
 David Eugene Powell, Hebron  
 Stephen Clayton Rogers, Dublin  
 Craig Stephen Ross, Vermilion  
 Brian Francis Scragg, Youngstown  
 Anthony James Selley, Dublin  
 Lisa Beth Shoaf, Whitehall  
 Deborah Sue Slovut, Amherst  
 Christopher Stevens, Lima  
 Sandra Kay Stranski, Mansfield  
 James Michael Taylor, Gahanna  
 Joseph John Torek II, Perry

### **Bachelor of Science in Metallurgical Engineering**

Darin Scott Barber, Cincinnati  
 William Otto Braham III, Perry  
 Robert Matthew Herrmann, Columbus  
 Joel Douglas Johns, Columbus

### **Bachelor of Science in Surveying**

James Scott Davenport, Mentor  
 James Edward Davis, Gahanna  
 Gary Scott Miller, Strongsville  
 Nilesh Raman Patel, Parma  
 Gary Stephen Swierz, Zanesville  
 Joseph Marion Tankovich, Delaware  
 James Paul Villacres, Newark  
 Gail Ann Wilson, Piqua

### **Bachelor of Science in Welding Engineering**

Charles Patrick O'Neill, Columbus  
 Lance A. Scotney, Columbus

### **School of Architecture**

#### **Bachelor of Science in Architecture**

Quentin Martin Elliott, Columbus  
 Alycia Ann Freeman, Coshocton  
 Eric Allen Karhoff, Findlay  
 William Jacob Mentges, Sidney  
 Christopher Brian Niedland, Wayne, PA  
 Douglas Dean Smith, Maumee

#### **Bachelor of Science in Landscape Architecture**

Edward Michael Godfrey, Bellevue  
 Kevin Joseph Rice, Canton  
 William Damon Wilson, Piqua

### **College of Human Ecology**

Dean: Lena Bailey

#### **Bachelor of Science in Home Economics**

Linda Connell Adams, Westerville  
 Lynette Marie Anderson, Columbus  
 Karen Blaine Ankney, Columbus  
 Janet Denise Atwood, Columbus  
 Elizabeth Emma Ball, Worthington  
 Linda Paulette Beltz, Austin TX  
 Cornelia Ingrid Bloch, Columbus  
 Cheryl Mae Bodine, Dublin  
 Loretta Lynn Bowling, Grove City  
 Stacy Ann Boyer, Toledo  
 Sally Ann Burke, Portsmouth  
 Martha W. Byrne, Worthington  
 Ellen Amanda Clyburn, Greenfield  
 Sonja Maria Fajack, Youngstown  
 Elizabeth Ann Feibelman, Akron  
 Catherine Lorean Ferretti, Columbus  
 Suzanne Margaret Grosh, Hilton Head, SC  
 Patricia Marie Guagenti, Lima  
 Karen Ann Haas, Fairview Park  
 Sheri Jill Harris, Cincinnati

Dawn Elizabeth Eggers Hennessy,  
Mansfield

Trina Lynn Hoover, Alliance  
Suzanne Marie Houston, Worthington  
Caroline Lynne Howard, Wilmington  
Mei-Fen Hung, Munroe Falls  
Diane Patrice Hurley, Columbus  
Marcia Anne Johns, Chagrin Falls  
Amy Marie Johnson, Centerville  
Crystal Lynne Johnson, Columbus  
Kathleen Mary Kelley, Columbus  
Margaret Mary Kelley, Lima  
Colleen Gaye Kolehmainen, Circleville  
Kelly McNally Koney, Willoughby Hills  
Laurie Anne Krouskop, Van Wert  
Jack John Lach, Avon  
JoAnne Given Leahy, Columbus  
Georgia Gayle Lecain, Dublin  
Lisa Gayle Markowitz, Cleveland  
Beverly Jo McKain, Columbus  
Nicole Rae Morosco, Zanesville  
Monica Jean O'Brien, Kettering  
Erin Maire O'Connell, Dayton  
Micah Elizabeth Owens, Worthington  
Kathleen Ann Quinlan, Columbus  
Caren Renchar, Groveport  
Katherine Elizabeth Ricciuti, Youngstown  
Stephanie Renée Saam, Fremont  
Lynda Marie Schneider, North Ridgeville  
Sandra Kirsten Skarl, Shelby  
Kelly Lynn Slade, Columbus  
Tracy Rebecca Smith, Newark  
Cheryl Ruth Snider, Pepper Pike  
Marjorie Ann Soller, Marysville  
Aimee Lynn Stojetz, Willoughby  
Sherri Colvin Theaker, Bridgeport  
Elaine Helen Utzinger, Grove City  
Jennifer Kay Visser, Fairfax, VA  
Kristina June Vogt, Port Clinton  
Kelly Alyse Wilson, Poland  
Amy Elizabeth Wink, Worthington  
Melissa Catherine Woniger, Cincinnati  
Gertrude Arvesta Woods, Coshocton

### **Bachelor of Science in Food Technology**

Thomas John Pfeiffer, Canton

### **Bachelor of Science in Hospitality Management**

Yvonne Mae Albers, Maria Stein  
Douglas Victor Eickman, Dayton  
Alan Matthew Escott, Mayfield Heights  
Suzanne D. Everett, Laurelville  
Christopher Lee Fisher, Columbus  
Steven Skip Hand, Columbus  
Kristina Karen Knight, Columbus  
Michael George Mancy, Toledo  
Abe Alan Pendleton, Bloomingdale  
Hector Rene Ramirez, Toledo  
Beth Ann Russell, East Liverpool  
Nancy Sue Sarabia, Silver Spring, MD  
Douglas Harold Smith, Marietta  
Cynthia Marie Swank, Geneva

### **Bachelor of Science in Nutrition**

Patricia Kay McDonald, Newark

### **College of Law**

Dean: Francis X. Beytagh, Jr.

### **Juris Doctor**

Gardner Jerry Combs, Dayton  
B.S. (University of Mississippi)  
Shila Fletcher Stoner, Clinton, OK  
B.A. (University of Oklahoma)  
Heidi Johnson-Wright, Avon Lake  
B.A. (Kent State University)  
Robin Edwina Lampkin, Columbus  
B.A.  
Barbara Renee Levy, Columbus  
B.A. (City University of New York)  
Gregory Charles Luke, Englewood  
B.S. (Wright State University)  
Marianne K. Mitchell, Columbus  
B.A. (University of Utah)  
Gregory Allen Price, Youngstown  
B.A.  
Matthew George Seyfang, Toledo  
B.A. (University of Toledo)  
John Bolling Sheppard, Huntsville, AL  
B.S. (United States Military Academy)

### **College of Medicine**

Dean: Manuel Tzagournis, M.D.

### **Doctor of Medicine**

Lisa Pauline Gvoic Fugate, Columbus  
A.B. (Mount Holyoke College)  
Alvin Deron Jackson, Portal, GA  
B.S. (Andrews University)  
Patricia Ann Nofzinger, Whitehouse  
B.S. (Bowling Green State University)  
John Jeffrey Pauls, Cincinnati  
B.S. (Wittenberg University)

### **School of Allied Medical Professions**

### **Bachelor of Science in Allied Health Professions**

Michele Ann Barton, Allentown  
Carolyn Elizabeth Gosnell, Columbus  
Lisa Carol Holtrey, Fredericktown

Debra Ann Hulburt, LaVale, MD  
Michael Kenneth Kennedy, Reynoldsburg  
Hoan Kim Luu, Columbus  
Shari Lynn Racut, Cleveland  
Timothy John Warburton,  
Upper Arlington  
Lynn Ann Woodworth, Westerville  
Paul Joseph Wulf, Louisville, KY

### **College of Nursing**

Dean: Carole A. Anderson

### **Bachelor of Science in Nursing**

Gwen Bea Atkins, South Euclid  
Karen Marie Bergman, Houston  
Marcie Ellen Connolly, Youngstown  
April Lynette Foster, Newark  
Zelda Elestine Foster-McCary, Cleveland  
Pamela Helen Rafferty, East Palestine  
Laura Ann Emmett Reed, Springfield  
Diane Marie Riddell, Pickerington  
Diane Marie Sauder, Mansfield

### **College of Pharmacy**

Dean: John M. Cassidy

### **Doctor of Pharmacy**

Debra Lynn Merrill,  
Nepean, Ontario, Canada  
Kristen Wilkinson Mosdell, Dublin

### **Bachelor of Science in Pharmacy**

Lesley Louise Breech, Worthington  
David Paul Ciaramitaro, Loveland  
Richard Lee Douglass, University Heights  
Eric John Edelenbos, Portsmouth  
Dianne Marie Flowers, Marion  
Kelly Ann Gordon, Gahanna  
Jeffrey David Mancini, Cincinnati  
Sandra Rose McInerney, Sunbury  
Gregory Mieskoski, Columbus  
David Alan Myers, Martins Ferry  
Amy Louise Nemecek, Cleveland  
Beth Senuta, Hudson  
Mary Kay Stamatakis, Canton  
Pamela Jane Stotka, Brookpark  
Stephanie Ann Vrabie, Niles

### **College of Social Work**

Dean: Richard E. Boettcher

### **Bachelor of Science in Social Work**

Sharyn Marie Donatelli, Poland  
Geneva Linn Sanford, Springfield

## Graduates with Honors

Criteria for graduating with honors are as follows:

**Summa Cum Laude** designates those graduating in the top 3% of the class.

**Cum Laude** designates those graduating in the top 10% of the class.

**With Distinction** requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

**With Honors in the Liberal Arts** requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

**With University Honors** designates those graduating with curricular distinction and dedication to high educational goals.

### Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Political Science

David Matthew Kall

### Summa Cum Laude with Distinction in Family Relations and Human Development

Kelly McNally Koney

### Summa Cum Laude with Distinction in Plant Pathology

Scott Thomas Adkins

### Summa Cum Laude with Honors in the Liberal Arts

Jonathan Franklin Abels  
Sujatha Jagadeesh

### Summa Cum Laude

Christopher John Abel  
Dawn Malynn Bentley  
Joseph Richard Clay  
Randy David Clepper  
Joy Dettorre  
Kelly René Flanagan  
Gregory Thomas Giaimo  
Theodore Christos Glavas  
Joan Angela Hargis  
Valerie Linn Hinton  
Brian Jay Hollaway  
Fredric Michael Hustey II  
Mark Owen Johnson

Kristina Frances Jurecic  
Trishia Ann Langley  
Nicholas Madias, Jr.  
Kathryn Ann Sanderson  
Michael Charles Schiefer  
Scott William Sessler  
Thomas Eugene Sinclair  
Tulika Sinha  
Michael Lee Tappan  
Sharon Elaine Will

### Cum Laude with Distinction and Honors in Pharmacy

Lesley Louise Breech

### Cum Laude with Honors in the Liberal Arts

Lisa Clare Dierker  
David Elias Idinopulos

### Cum Laude with University Honors

Nitin Yogendra Bhatt  
Sean Patrick Dunn

### With Honors in the Liberal Arts and with Distinction in Psychology

Karen A. Orts

### With Distinction in Community Health Education

Diane Frances Berman

### With Distinction in Political Science

Andrew Lawson Freid

### With Honors in the Liberal Arts

Michael David Mohr  
Steven Charles Wieclaw

### With University Honors

Amy Michelle Drake  
Lois Sevim McCutcheon  
James Story Shoenfelt

### Cum Laude

Angela Lynn Angus  
Ann Christina Anstatt  
Keith Michael Aubly  
Marcia Lynne Boedeker  
Kevin Scott Bollinger

Marie Therese Borgner  
Linda Ann Brauer  
David Edward Bukovinsky  
Amy B. Corrigan  
Patricia Ann Cunningham  
Stephen Huy Dang  
Daniel Dobres  
Doreen Marie Dudek  
Gregory Crawford Fail  
Steven J. Gerber  
Patrick Michael Gibson  
Deborah Amy Goldstein  
Meta M. Goodwin  
Ann M. Groscoft  
Barron Keith Henley  
Kurt Thomas Hofelich  
Scott Lincoln Kaser  
Susan Robertson Keiff  
Kathleen Mary Kelley  
Kristine Elizabeth Kovach  
Jodene Ann Landin  
Christine Kay Laskin  
James Michael Lisko  
Michael George Nancy  
Tina Marie Mangia  
Sandra Rose McInerney  
Kristina Louise Menden  
Angela Lynn Miller  
\*Mary Louise Ertl Murray  
Judy Nygate  
Anthony Duane Philipp  
Richard James Plummer  
Jennifer Joan Reardon  
Richard Allan Repp  
Annette Sue Reynolds  
Linda Ann Rollefson  
Michelle Elaine Russell  
Nancy Kaye Schimpf  
Richard Joseph Schuman  
John William Slyh  
Kay Ann Spellman  
Joel F. Staich  
Joseph Andrew Staysniak  
Jerry Craig Strohacker  
Jeffrey Allen Tatem  
Amy Linette Weinhold  
Gregory Lee Williams  
Susan Marie Wolfe  
Paul Joseph Wolf

THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTY-SIXTH MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, December 1, 1989

The Board of Trustees met at its regular monthly meeting on Friday, December 1, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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December 1, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on December 1, 1989, at 11:20 a.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John W. Kessler, Milton A. Wolf, Alex Shumate, Sophia L. Paige, and Laurel A. Davis.

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#### REPORT ON THE COLLEGE OF DENTISTRY

Mr. Berry:

We are honored today to have Dean William R. Wallace of the College of Dentistry with us to give us a report on the College.

Dean William R. Wallace:

Mr. Chairman, I am pleased to have the opportunity to come before you this morning. First, let me talk a little bit about what is happening in dentistry and the changes that are happening and perhaps get across to you our excitement about the profession.

You may have read or seen some negative press on what is happening in dentistry. I am here to assure you that the opportunities are probably better now than they have been in the last twenty years. As is often the case, the pendulum swings one way and then another. There is no question that during the 1970's there was an over production and supply of providers in dentistry. The academic community however has responded very rapidly to that. Our highest first year enrollment in the late '70's was a little over 6,000; the first year enrollment this last year was down to 4,000; no matter what we do, the enrollment in dental schools in this nation will go down probably below 3,000 in the next two or three years. What that does is create a shortage of dentists by the year 1995. So what I can tell you right now is that if you have some young friends who are in high school and think that they might enjoy a profession that allows you lots of people contact, dentistry is an opportune profession. We truly will have a shortage by the year 1995.

Let me just give you some perspective of that. The dentists to patient population of 56 to 100,000 peaked in 1987, it will go down no matter what we do. Because of the increased population in the year 2020, it will be below where it was in World War I. So we are looking at a real long decline that would be very difficult to turn around. In that respect, there are five dental schools that are closed, they are all private, but in actuality when you drop 2,000 first-year positions, with the average entering dental class being 75, you have really closed 28 dental schools. We suspect that there will be another 14, which will mean that there will be some more private schools actually closed and perhaps, unfortunately, one here in Ohio. It is getting to be a problem, but from the standpoint of a student it is actually a tremendous opportunity. One of the interesting things about the change, that this causes, is that if you realize that 30 percent, almost 40 percent of the entering class now are women, which was not the case 10 years ago. With the number of retirees and the number of women coming in, dentistry will be a tremendously different profession by the year 2000. In actuality, 30 percent of the profession will be women in the year 2000, right now it is at about 10 percent. So there is going to be a significant change. Our classes are reflecting that, we see approximately 30 percent women in our entering class in our College.



**REPORT ON THE COLLEGE OF DENTISTRY (contd)**

Dean Wallace: (contd)

It has been said that, "people would rather die than change," and I can guarantee that dentists personify that more than anyone else. You do hear a lot from our professional colleagues about the changes in the profession, in the insurance industry, more people interfering with how we provide our care, and so we are seeing, along with this decrease in entering students or entering professionals, a tremendous increase in retirements. And, in fact, the State of Ohio is now importing dentists from other states because, we, both Case Western and Ohio State, no longer can provide the same number of dentists that are retiring per year. So, again, it is an opportune time, I believe, for young folks to look at dentistry. We are excited about the opportunities for them, and we hope that we have got the College in the position that we want to have it for the next few years.

Let me begin by saying that the pin I sent around to you is our centennial logo pin, and at the end I will tell you what it says on there. But I want you all to take your pencils out and write down April 27, 1990, which is a Friday night. We will have a centennial celebration down at the Hyatt Hotel. You will all get official invitations, but we are going to have a significant celebration of our centennial year this alumni day, actually it is three days. It happens to be the oldest alumni meeting in the nation -- started back in 1944 by Dean Postle, whom the school is named after, and has gone on ever since. So we are looking toward a big event.

Let me just say that probably the easiest way to tell you about what is happening in the College is to try to tell you where it was eight to ten years ago, and where it is today and there by showing the change, I hope, that it has gone through. In 1981, there were 86 full-time faculty and 115 part-time faculty, which comes out to 116 FTE's; today, there are 120. So we had a full increase of 4 FTE's in that time; however, it is 107 full-time and 73 part-time. And what that has allowed us to do is to develop the other parts of the College that needed support during this time. I am going to give you some figures that are rather startling, because there is such change.

In 1981, 70 plus percent of the faculty of the College were Ohio State graduates; as of today, less than 44 percent are Ohio State graduates I had the opportunity to make 92 hires in that period of time. Of that 92, a third of them were women, 10 percent were minorities. So, we feel that we have kept up with what is happening in the profession, and what is happening here on campus. We have had the luxury of 42 retirements. If you want to know which College early retirement has had a significant impact on, you are seeing one.

We have been able to change the way we structure the College sections or departments, as they might be called, by reducing the number down from 14 to 9. Each of these departments has a graduate program and we feel that that is one of the strong changes in the College, in that we have increased our graduate programming and therefore increased our research. Each of our graduate research programs has been extended a year so that our graduate students are all providing some kind of research, along with the clinical training that they get during that time. We have gone from 50 graduate students up to 75. So you can see that is a significant number. We hope you will see, sometime yet this year, our request for a Ph.D. program in oral biology. This will finally give us our Ph.D. in our own College, so that we can increase our graduate students.

## REPORT ON THE COLLEGE OF DENTISTRY (contd)

Dean Wallace: (contd)

In the area of research, in 1981 we were the large midwestern university that put Crest on the market. We got \$12,000 a year from P & G to do that, and it has significantly changed dentistry, as a matter of fact. This year we hope to top \$2 million in research. I think that is probably the biggest change that we have seen. We had, roughly, 25 faculty who had graduate faculty status in 1981, we have 75 now. Again, talking to the opportunity to hire new people, we just brought on board a full professor, Ruth Nordlander, who came with a Jarvis Award, which is seven years of non-competitive funding from NIH in the neurobiology area. So these are the kinds of things that we have been able to do with the opportunities we have had available.

The \$2 million will get us close to being among the top ten in the country in research in dentistry. And you realize, that six of those ten schools have NIH dental research centers funded at their schools. I can tell you that in the last three years of the International Research Meeting we have been one, two, or three in the number of research reports presented. So, again, it tells you that not only did we bring the people in, but they are out producing. There were 47 requests for grants this year from the Research Foundation totalling \$13 million, and we are going to get some of those. And we look to the day we are going to be having \$3 million in research, fairly soon, in the College.

Let's talk about one of the other areas and the opportunities that we have here at the University. The Seed Grant Program is run through the Vice President for Research and Graduate Studies area and we have received a total 18, but three of those were last year. So there were 15 up to last year; 11 of those have now received external funding. So it tells you that if given the opportunity and the funds, we can get pilot studies done and then go out and see the success. Probably the biggest success, and the one I would like to talk about, is that we had our first faculty member -- at sixty-four years old -- get his first external grant about a year ago from NIH. So with change and with the right mix, you can see things happening.

In 1981, 5 percent of the faculty had Ph.D. degrees; we now have 20 percent of the faculty with Ph.D. degrees along with dentistry degrees, which again leads us to the ability to have our own oral biology Ph.D. program. We have over 150 students doing research, which we believe is probably the best way to teach them how to think. Obviously, with only 107 full-time faculty, it keeps them busy. But that also is a good sign from the Dean's standpoint, because if they have a student in their lab working, they are in there supervising and getting some good of both sides of that.

Just for interest sake, we have 25 faculty that collaborate with 55 other departments on the campus. We have students in our laboratories in the College from pathobiology, microbiology, geology and mineralogy, engineering, chemistry, so that we have developed a fairly good inner-mix in our research endeavors.

As far as service is concerned, you know that we have a Dental Clinic, that is a fairly significant component of the students' training. We have done some interesting things in the last few years in that we have done some evening clinics, which happen to be our busiest, and we go year-round now. Because of that, we have actually increased our billings at the Clinic from \$1 million to \$3 million a year, in that period of time. We have added a faculty practice, which was approved in 1982 by the Board, and that brings in approximately \$1 million a year. So we are doing some

December 1, 1989 meeting, Board of Trustees

## REPORT ON THE COLLEGE OF DENTISTRY (contd)

Dean Wallace: (contd)

things to help ourselves through our clinical situation. I can also inform you that when you get hit with infection control problems and just buying gloves, masks, and the things that we must do now, that cost is somewhere between \$250,000 and \$300,000 a year in our facility, and you can't very well pass that very well on to the patient. Our patients are clinic patients, so we have a limit which we can charge. We aren't going to have them if we charge too much, and we must have them. The Clinic is probably the thing that is going to limit our enrollment. But other things aside, if we don't have patients, and if we get ourselves priced out of the market, we will need to change the model which we are using, which may be, eventually. But it is an interesting problem and one that gives us some difficulty, but we work on it continually.

I think it would be interesting for you to know that we are down in the inner city at Ft. Hayes, we go up to Coshocton to take care of indigent children, and we are starting a program on geriatrics at Coshocton. We have one dental clinic called our Home Bound Program. It is out in the community every day going into the homes of patients who can't get to the dentists, or to nursing homes, as part of our teaching model. We are also at Children's Hospital and University Hospitals. You should understand that almost all of the transplant patients must have excellent health before they will let them have their transplant. We are involved in those kinds of things, we go down to the City Dental Health, and we have externships in other countries so that our students have diverse experiences.

With that, let me just tell you a little bit about that pin. It is the logo for our centennial. The symbol is the Greek Delta which stands for dentistry. You will notice at the top it says "75" with Ohio State in it, because 1989 is our 75th year with the University. The "100" down below is, of course, because of our centennial -- in 1890, we started with the Ohio Medical University Department of Dentistry. And if you look at that "100" you will see that the "1" stands for teaching or the text book; the first "0" it is a mouth mirror so that is the service part; and the last "0" is a petri dish with a few bacteria in it so that is the science part of dentistry. So, it is teaching, research, and service. Let me say that our motto for the year is "Another Century of Excellence," and we hope we have the College poised for that new century. With that, thank you.

Mr. Berry:

Let me ask you, you said currently your enrollment is at 30 percent women. Isn't that true with law, too, that they have about one-third women?

Dean Wallace:

I don't know.

Mr. Teaford:

At least that or may be a little bit more.

President Jennings:

I think about 40 percent right now.

December 1, 1989 meeting, Board of Trustees

## REPORT ON THE COLLEGE OF DENTISTRY (contd)

Mrs. Bowser:

Veterinarians are almost 50 percent.

Dean Wallace:

Veterinary Medicine is over 50 percent.

Mr. Berry:

In the future, all those professions are going to have a lot more women than they have had in the past.

Mrs. Bowser:

And that is good, isn't that what you are getting at?

Mr. Berry:

Of course, Shirley. You are reading my mind.

Mr. Teaford:

Great response.

Mr. Berry:

No comment. That is a very interesting report and since my teeth are in perfect shape, why I am very happy for the future, but some of these young people might not be so fortunate.

Mr. Shumate:

Mr. Chairman, I would like to ask the Dean what percentage of your student body is American-minority?

Dean Wallace:

We are averaging about 7 to 9 percent per year, so it is in that range. It is not as good as we would like. We have recruiters and we are expanding that program. I think the success we have had recently with hiring faculty will make the student success better. That is what we are counting on and we hope that will increase our percentage.

Mrs. Bowser:

Dr. Wallace, you mentioned your cooperation or your interaction with other departments in the University and I always like to hear that. I think one of the beauties of a large, comprehensive university is the interaction that can take place. Is this something that you've developed, or is this a long-standing kind of thing?

December 1, 1989 meeting, Board of Trustees

### **REPORT ON THE COLLEGE OF DENTISTRY (contd)**

Dean Wallace:

Well, obviously, we have had a long-standing cooperation with the College of Medicine, they teach our basic sciences; and we are part of the Hospitals program, but the answer to that is no. And so our collaboration may be in engineering or it may be over in geology. Yes, it is in medicine, there is no question there, but it is throughout the campus. It is the individual and his training and his research efforts that makes the difference, and, obviously, the Ohio State faculty who are willing to accept these kinds of things. I think that you are seeing more and more of that on this campus.

Mrs. Bowser:

I am very happy about that. I think you are to be commended.

Mr. Berry:

Any other questions? Thank you, very much, Dr. Wallace.

Dean Wallace:

Thank you. We will see you on the 19th.

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### **INVESTMENTS COMMITTEE REPORT**

Mr. Kessler:

The Investments Committee met this morning and reviewed the status of the Endowment Portfolio as of November 17, 1989, as presented by Mr. Nichols. The value of the endowment portfolio was reported as \$302.1 million. (See Appendix XXXIV for complete text of The Ohio State University Endowment Summary, November 17, 1989, page 597.)

We also reviewed the performance of those funds managed by the University Treasurer, which completes our annual review of all the investment advisors. As a result of these performance reviews, the Committee recommends Board approval of the resolution to reappoint all investment advisors with the following changes: increase allocations to STW and Boatmen's Trust by \$5,000,000 each, and increase the allocation to the University Treasurer by \$5,000,000, who will utilize advice from the student investment program in managing this new amount.

### **APPOINTMENT OF INVESTMENT ADVISOR AND REAPPOINTMENT OF INVESTMENT ADVISORS**

Resolution No. 90-52

**Synopsis:** The Investments Committee recommended the Appointment of Investment Advisor and Reappointment of Investment Advisors.

December 1, 1989 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISOR  
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)**

WHEREAS it is the policy of The Ohio State University to utilize the services of external Investment Advisors to assist in the management of the University's Endowment Fund; and

WHEREAS the Investments Committee of the Board of Trustees periodically reviews the results obtained by the external Investment Advisors and the amount of funds assigned to each of them; and

WHEREAS it is prudent investment policy to adjust the mix and amounts of money assigned to external Investment Advisors as economic conditions change; and

WHEREAS the Investments Committee has also directed the Treasurer to maintain University Managed funds which primarily consist of gifts; and

WHEREAS the number of external Investment Advisors and the amount of funds assigned to them and the Treasurer shall be determined by the Board of Trustees:

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Investments Committee of the Board of Trustees the following named Investment Advisor shall be appointed and the following named external Investment Advisors shall be reappointed to counsel in the management of Endowment Fund investments totaling the initial amounts indicated:

	<u>Book Value</u>	<u>Market Value as of 10-20-89</u>
Boatmen's Trust Company (Fixed Income)	\$25,000,000	\$23,921,037
Cambridge Financial Group, Inc. (Fixed Income)	\$ 1,000,000	\$ 952,715
The Chicago Corporation (Equities)	\$17,500,000	\$37,490,553
Duff and Phelps Investment Management Company (Fixed Income)	\$10,000,000	\$10,288,994
W.R. Lazard and Company (Fixed Income Index Fund)	\$10,000,000	\$10,121,962
R. Meeder and Associates, Inc. (Small Capitalization Index Fund)	\$15,000,000	\$13,949,480
Neuberger & Berman Mutual Funds:		
Guardian Fund	\$ 2,000,000	\$ 8,610,986
Partners Fund	\$ 1,000,000	\$ 5,521,958
Nicholas-Applegate Capital Management (Equities)	\$10,000,000	\$13,658,576

December 1, 1989 meeting, Board of Trustees

**APPOINTMENT OF INVESTMENT ADVISOR  
AND REAPPOINTMENT OF INVESTMENT ADVISORS (contd)**

	<u>Book Value</u>	<u>Market Value as of 10-20-89</u>
Siebel Capital Management, Inc. (Equities)	\$13,500,000	\$34,505,711
STW Fixed Income Management, Inc. (Fixed Income)	\$25,000,000	\$24,216,126
University Managed (Equities)*	\$14,119,268	\$30,720,666
University Managed (Fixed Income)*	\$ 435,813	\$ 465,607
University Managed (GNMA's)	\$10,000,000	\$10,143,133
University Managed (Students) (New Appointment)	\$ 5,000,000	Not Applicable
Wells Fargo Investment Advisors (Standard and Poor 500 Index Fund)	\$30,000,000	\$28,677,608
Wells Fargo Investment Advisors (International Equity Index Fund)	\$10,000,000	\$10,000,000

\*Varies with receipt and sale of gifts.

(See Appendix XXXV for charts of The Ohio State University Endowment Fund Annual Total Return Comparison by Advisor and The Ohio State University Managed Stocks, June 30, 1989, page 607.)

Upon motion of Mr. Kessler, seconded by Mr Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

Mr. Kessler:

One item on that Student Investment Program, Mr. Berry, if I may, I think that special recognition should go to our Trustee, John Barone, who really spearheaded and drove this concept when many of us on the Board weren't as enthused as he has been. And only due to his not being in top physical shape today, would he not be here. I think all of us feel that he deserves a lot of credit in bringing us along on this exciting opportunity to work with the students.

Mr. Berry:

I think all of us would agree that it is exciting, both from the students' standpoint and the professors' standpoint. It is a fine program.

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## ACADEMIC AFFAIRS COMMITTEE REPORT

Mr. Teaford:

In Academic Affairs there were two reports, one on Curriculum Reform and one on Selective Admissions.

With regard to Curriculum Reform, as we recall, the review of the undergraduate education was initiated by President Jennings' speech to the University in 1985. And I would say that without his unrelenting insistence that this program be carried forward, we would not now be poised to have curriculum reform which will put us among the leaders in the United States. The general education program will begin for freshmen entering in the Autumn Quarter. So we are not talking about future now, we are talking about being there. This program will provide a structured, cohesive liberal arts component of approximately 100 credit hours for all students, which is up from approximately 45 to 50. Considerable course development is underway this year in anticipation of the new freshman program next Autumn.

The review of general education has been followed by reviews of all undergraduate majors and minors. These reviews have been designed to do the following things:

1. To ensure that major programs are well articulated with the new general education requirements.
2. Encourage faculty to develop major programs, leaving out those parts of the traditional programs which are no longer needed and including programmatic elements needed to guarantee that major programs reflect the current state of those disciplines.
3. Rethink the degree of professional or disciplinary specialization required by the major programs.
4. Examine the extent of "hidden requirements" brought about by prerequisites for required work.

Special funds are being designated to support new course development, anticipated enrollment shifts, greater faculty involvement in lower division instruction, additional laboratories, and the purchase of computers and other instructional equipment.

Just briefly, some of the significant features I think of the new curriculum -- first of all, are the senior year courses. As we all know, historically, general education has been a freshman/sophomore idea and there are now two requirements in the senior year. One a writing course within the major; and the second, and I think the most exciting, a capstone course which will be on contemporary issues and which will require interdisciplinary discussion and will include persons from different majors in those programs. This will likely be small in size; 25 maximum probably in terms of numbers.

Another significant thing in the new program is the increased requirements in regards to the sciences, particularly in the natural sciences. You will be required to take two courses, one a beginning and one a second course in biological sciences and also in physical sciences. Another important component is the requirement that it be at least a course in non-western cultures. Sophia raised the question of how do you keep track, because obviously it is a lot harder than under the old system. But,



**ACADEMIC AFFAIRS COMMITTEE REPORT (contd)**

Mr. Teaford: (contd)

indeed, there is a computer degree audit available to students so they can determine that they are on track toward fulfilling the requirements.

So the significant cost-increases -- or let's say temporary costs -- that we are going to have to incur will be in regards to new instructors, particularly in foreign languages, but in other things as well.

Another thing, this is going to require a considerable increase in computer use on campus. One of the things that Joan Leitzel, who gave this report and who I neglected to mention, pointed out to us is that computers are, of course, likely to be obsolete in four to seven years. So it is a continuing cost there that we will have to incur. Obviously, we are going to have to do some renovations of labs and classrooms, too, to meet the shift in the types of courses.

A couple of significant things about the program is that first of all this does not require an increase in the hours which a student needs for graduation. These are shifts within that requirement and not an increase in hours. They have really, as I understand it, held their feet to the fire to insure that has happened. It is also very important to note that outside the Colleges of the Arts and Sciences there has been strong support for these changes, and probably stronger within Arts and Sciences. I think that is an important thing for us to keep in mind. Every time I hear about this program, I get very excited and almost want to go back and be an undergraduate -- not quite, but almost. This morning was no exception.

Joan Leitzel also reported on Selective Admission. I am somewhat concerned as to whether Fred will be able to manage over there since Joan is off on a leave of absence to Washington, but he has assured me that he can. She reported, as we know, that the Autumn Quarter next year will be the fourth year of selective admissions. We have particularly seen an improvement in the persons admitted in the 60th to 80th percentiles of high school graduating classes -- not so much above 80, but we have definitely had strong increases from 60 to 80, and obviously the corresponding reduction in persons in the lower parts of their class.

It was also pointed out to us that the other principle hope for selective admissions has been partially fulfilled in that we are also increasing the diversity of our student body by means of selective admissions. Joan also advised us that a recommendation is on its way to the Faculty Senate to extend selective admissions to the summer and winter quarters. I might point out that for Summer Quarter you were closed out in January and for Winter Quarter you were closed out in August. So more than a full quarter ahead of time, you get closed out. One of the real motivators to drive this selective admissions into other quarters is that the retention of the Autumn Quarter freshmen is now in the high 80 percent, as a result of selective admission. In the other quarters, the retention is in the mid-60's in percentage. So, clearly, the selective admissions has achieved better retention as we had hoped.

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## PERSONNEL ACTIONS

Resolution No. 90-53

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the November 3, 1989 meeting of the Board, including the following Appointments, Leave of Absence Without Salary, Professional Improvement Leave--Change in Dates, Professional Improvement Leave--Cancellation, Promotion/Tenure, and Emeritus Titles as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved October 26, 1989, by the Hospitals Board be ratified.

### Appointments

Name: FREDERICK E. HUTCHINSON  
Title: Vice President for Academic Affairs and Provost  
Office: Academic Affairs  
Effective: Immediately  
Salary: \$125,160.00  
Present Position: Acting Vice President for Academic Affairs and Provost

Name: JOSEPH J. RUSSELL  
Title: Vice Provost for Minority Affairs  
Office: Academic Affairs  
Effective: December 1, 1989  
Salary: \$90,000.00  
Present Position: Dean, Department of Afro-American Affairs and Associate Professor, College of Arts & Sciences, Indiana University, Bloomington, Indiana

Education: 1960, B.S., Virginia State College  
1968, M.S., Indiana University  
1970, Ed.D., Indiana University

### Experience:

1970 - Present Department of Afro-American Affairs, College of Arts & Sciences, Indiana University, Bloomington, Indiana

Dean and Associate Professor (1982-Present)  
Associate Professor and Chairperson (1976-1981)  
Assistant Professor and Chairperson (1972-1976)  
Director of Human Relations and Assistant Professor (1970-1972)

1967-1970 Associate Instructor (1969-1970) and Graduate Assistant (1967-1969), Department of Educational Psychology, School of Education, Indiana University and Consultant, Atterbury Job Corps Center, Edinburg, Indiana

1964-1967 Visiting Teacher, Richmond Public Schools

1960-1964 Social Worker, Richmond Social Service Bureau

December 1, 1989 meeting, Board of Trustees

### PERSONNEL ACTIONS (contd)

#### Appointments (contd)

Name: MUTTAIYA SUNDARALINGAM  
Title: Professor (Ohio Eminent Scholar in Macromolecular Structure Determination)  
Department/Center: Chemistry/Biotechnology Center  
Effective: January 1, 1990  
Salary: \$94,200.00  
Present Position: Steenbock Professor of Biomolecular Science, Department of Biochemistry, University of Wisconsin-Madison, Madison, Wisconsin

Education: 1956, B.Sc., University of Ceylon  
1961, Ph.D., University of Pittsburgh

Experience:

1969-Present: Department of Biochemistry, University of Wisconsin-Madison, Wisconsin  
Professor (1969-1987)  
Steenbock Professor of Biomolecular Structure (1987-Present)  
Chairman, Biophysics Ph.D. Program (1987-Present)

1966-1969 Associate Professor, Department of Chemistry, Case Western Reserve University, Cleveland, Ohio

1965-1966 Research Associate in Molecular Biology, Children's Cancer Research Foundation, Children's Hospital Medical Center, Boston, MA

1962-1965 School of Medicine, University of Washington, Seattle, Washington  
Research Instructor, Department of Biological Structure (1964-1965)  
Postdoctoral Fellow, Department of Anatomy (1962-1963)

1961 Research Associate, Crystallography Laboratory, University of Pittsburgh

#### Leave of Absence Without Salary

HAROLD S. HIMMELFARB, Associate Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to join the U.S. Department of Education in a research position.

#### Professional Improvement Leave--Change in Dates

THOMAS A. ROMANOWSKI, Professor, Department of Physics, change dates from Winter Quarter, Spring Quarter and Autumn Quarter 1990, to Spring Quarter and Autumn Quarter 1990, and Winter Quarter 1991.

#### Professional Improvement Leave--Cancellation

HAROLD S. HIMMELFARB, Associate Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

December 1, 1989 meeting, Board of Trustees

### PERSONNEL ACTIONS (contd)

#### Promotion/Tenure

SALVATORE IMBROGNO, College of Social Work, promotion to Professor, effective 10/1/89

#### Emeritus Titles

RODNEY J. HARRISON, Office of Student Affairs, with the title Associate Vice Provost for Student Affairs Emeritus, effective December 1, 1989.

DONALD R. GLANCY, Department of Theatre, with the title Associate Professor Emeritus, effective January 1, 1990.

LESTER F. SMITH, Department of Engineering Graphics, with the title Associate Professor Emeritus, effective December 1, 1989.

#### Medical Staff--Appointments

JEFFREY S. BISKER, M.D., Limited Staff, Division of Diagnostic Radiology

MAIDA P. CAMPANINI, M.D., Courtesy Staff, Pediatrics

ERIC G. HANDLER, M.D., Attending Staff, Pediatrics

JOHN P. HIBLER, D.O., Courtesy Staff, Division of Dermatology

RAJA A. JURDI, M.D., Limited Staff, Division of Diagnostic Radiology

PAUL E. KAPLAN, M.D., Attending Staff, Physical Medicine and Rehabilitation

#### Medical Staff--Reappointments

ROBERT C. FORSYTHE, M.D., Courtesy Staff, Pediatrics

JOHN A. KLAMAR, M.D., Courtesy Staff, Pediatrics

WARNER B. LUTZ, M.D., Courtesy Staff, Division of General Medicine

LAWRENCE J. NYESTE, M.D., Courtesy Staff, Obstetrics and Gynecology

CYNTHIA A. THORNE, M.D., Limited Staff, Pediatrics

Upon motion of Mr. Teaford, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

Mr. Berry:

Certainly we congratulate Fred on his permanent assignment as Vice President of Academic Affairs and Provost. And, we are looking forward to Joseph Russell joining us. Has he joined us already?

Dr. Hutchinson:

No. He will be here Tuesday.

December 1, 1989 meeting, Board of Trustees

### PERSONNEL ACTIONS (contd)

Mrs. Bowser:

Is this the first time we've had an agriculturalist as a Provost?

Mr. Teaford:

We had an acting one.

Mrs. Bowser:

Yes, Francille. But I mean is this the first time we have had one with an agricultural background?

Mr. Heinlen:

Roger Thompson or Robert Townshend?

Mrs. Bowser:

Yes, but that was before my time -- your's too. It's very nice.

Mr. Berry:

I take it you're giving it your hearty endorsement!

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### RESOLUTION IN MEMORIAM

Resolution No. 90-54

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolution in Memoriam.

RESOLVED, That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Doris E. Fulton

The Board of Trustees of The Ohio State University expresses its sorrow at the death on July 12, 1989, of Doris Fulton, Assistant Professor Emeritus in the Department of Human Nutrition and Food Management.

Professor Fulton was born March 23, 1914. She attended The Ohio State University from 1931-1938. She received her B.S. degree in Home Economics and her M.S. degree in Agricultural Biochemistry.

Professor Fulton came to the University in 1935 and was employed initially as a Graduate Teaching Associate. She was later employed as a Research Associate from 1958-1960. Professor Fulton was appointed Instructor in 1960 and promoted to Assistant Professor in 1968. Upon her retirement in 1977, Professor Fulton was named Assistant Professor Emeritus.

December 1, 1989 meeting, Board of Trustees

### **RESOLUTION IN MEMORIAM (contd)**

Doris E. Fulton (contd)

At The Ohio State University Doris Fulton was very involved in teaching, research and service. Professor Fulton's research was concerned with energy expenditure in homemaking tasks and resulted in several publications. She was an active member of Omicron Nu and Phi Upsilon Omicron and served as advisor for Phi Upsilon Omicron. Her interest in students was rewarded in 1972 by the receipt of the Alfred J. Wright Award.

Professor Fulton was a member of the Ohio State Home Economics Alumni Association and was volunteering with the current building campaign for Campbell Hall.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as a humble expression of the Board's heartfelt sympathy.

Upon motion of Mr. Teaford, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **STUDENT AFFAIRS COMMITTEE REPORT**

Mr. Teaford:

We had a report this morning on the Alcoholic and Substance Abuse Programs by Rich Hollingsworth, who is Dean of Student Life. He reported on the Faculty/Staff Assistance Program which is primarily an educational attempt, as well as the after care programs. With regards to the student program he indicated that there is counseling available within the mental health medical facilities, as well as the Counseling Center. Further, the Resource Center in the area of Student Life is working on educational programs for students on these subjects. Likewise there is dorm counselor training being carried out in order to help both identify and to assist persons with these problems. He said also that support groups like AA and ALANON are active on the campus.

He reported on a couple of grants which we are now about to get which will, again, improve the educational component of this area. He said that there were a number of areas in which this program needs more work. First of all, it needs to obtain a higher degree of visibility. In part, the fact that it is decentralized has made it more difficult for everyone to be aware of the existence of these programs. He also pointed out that this is the only state university in Ohio without an overall campus coordinator on drug and alcohol abuse and he hoped that we might be able to better coordinate those programs.

His other great regret in this area is that there really is no long-term assistance available on campus, particularly he would like to see outpatient long-term assistance. I think it is clear that one of the things that is hampering the availability of outpatient assistance is the fact that very few health insurance programs, including ours, provide any insurance to pay for outpatient care, even though it is perhaps is the best kind of care in this area.

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Teaford: (contd)

We had a brief report, too, about the drug testing program in our athletic programs. The interesting thing about our drug testing program is how much it has reduced abuse. When the program began the first time, 12 percent of the student athletes tested positive; the most recent tests show that to be approximately 1/10 of 1 percent. It was pointed out to us that the existence of the testing allows the student athletes to avoid and resist peer pressure. Now they can say I can't do that because I am going to get tested.

We asked about what the level of these problems were on the campus; overwhelmingly our problems are in alcohol abuse. In hard drugs, the belief is that the problem is relatively minor. We also asked about what affect abuse of alcohol or drugs has on persons dropping out of the University and we have no statistics for Ohio State. The national average is that apparently about 25-26 percent of all drop outs are indeed suffering from some kind of abuse problems. It is our suspicion that those percentages are lower on this campus. They are probably significantly lower, but we really don't have any hard data yet.

We also had reports by Dave Straub from USG. He reported on the teacher evaluation program which we have heard about before. He reported that they are working in the area of campus safety on improving the lighting in various parts of the campus. With regard to campus environment, he reported that they are attempting to create a recycling education program so that persons who are expected to be leaders in this society will be aware of the importance of such programs. He also reported that the student trustee search has been reopened. He indicated that one of the problems, he felt, in that area was the lack of available funds for sufficient advertising of the position.

We also had a report from Steve Sloan from IPC. He reported on various student trustee processes as well, and indicated that they are now attempting to integrate the student governments which are in each of the professional schools into the IPC to make them a more effective organization.

Mr. Chairman, that completes my report.

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### AGRICULTURAL AFFAIRS COMMITTEE REPORT

Mrs. Bowser:

The committee met this morning with Dr. Bob Moser, who is head of the Ohio Cooperative Extension Service. He told us about a program that will be initiated in 1990, in which county extension agents will meet with advisory groups in each county to assess their particular needs. There are a list of needs on a national level and there are a list of needs that OCES feels Ohio has priorities, but they are going to the grass roots now. They are going out to the people and having them prepare a list. For two reasons: 1) OCES is very interested in responding to the peoples' needs, not something that they think they need, but something people themselves are interested in doing, and 2) because of the financial constraints. This allows the Ohio Cooperative Extension Service to put their money into areas that people have indicated they're most interested in. It looks like an exciting program. It always

December 1, 1989 meeting, Board of Trustees

### **AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)**

Mrs. Bowser: (contd)

akes me proud of agriculture because it is the one place in this University where we go to the grass roots level and where it is fed back into the University in an organized manner. Because as each of you know, we do have a county extension agent in each of the 88 counties. So it is an arm of the University that reaches into every single county.

He showed us an interesting report that they have just started doing. They are doing a demographics and business profile on each county. This one happened to be in Brown County. It will be free and it gives all kinds of really very interesting and vital statistics on demographics, on jobs, on employment, and facilities. I think the committee that heard it felt that this was certainly a help, particularly to those rural counties who do not have the money to contract to have these things done. It was a very interesting report.

I don't know what is going to happen to this Board when the two farmers on the Board are no longer here. John Berry and I are the only -- we have some that we have adopted -- but Mr. Teaford was too busy running other committees this morning. It was a very interesting presentation. If there are no questions that completes my report.

(See Appendix XXXVI for Assessing Extension Program Needs at the Local Level, page 617.)

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### **Waivers of Competitive Bidding Requirements July - September 1989**

#### **Background**

During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 38 waivers of competitive bidding requirements. Annual purchases authorized by these waivers total approximately \$10,458,600.00. Of this total, approximately \$4.75 million was for publications for the Libraries and other departments, and approximately \$3.37 million was for professional medical services for University Hospitals. The other purchases included:

Publications for the Libraries	\$4,752,874	(1 waiver)
Professional Medical Services	\$3,366,760	(2 waivers)
Emergency Helicopter Transport Services	\$ 206,500	(1 waiver)
Other Hospital Services & Equipment	\$ 283,000	(5 waivers)
Administrative Support Services & Equipment	\$ 480,758	(7 waivers)
Artists & Attractions	\$ 474,035	(1 waivers)
Teaching & Research Services & Equipment	\$ 330,080	(10 waivers)



December 1, 1989 meeting, Board of Trustees

**Waivers of Competitive Bidding Requirements  
July - September 1989 (contd)**

Background (contd)

Advertising	\$ 325,000	(1 waiver)
Construction & Repair Services & Equipment	\$ 164,062	(7 waivers)
Transportation & Accommodations	\$ 75,488	(3 waivers)

**WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS  
JULY - SEPTEMBER 1989**

Resolution No. 90-55

Synopsis: The Fiscal Affairs Committee recommended acceptance of the quarterly report on waivers of competitive bidding requirements.

WHEREAS the Purchasing Policy of The Ohio State University, adopted by the Board of Trustees on September 7, 1984, provides that the President and/or the Vice President for Business and Administration may grant a waiver from competitive bidding in the event of an emergency, when a sufficient economic reason exists, or when goods or services can be purchased from only a single source, with a report on such waivers to be made quarterly to this Board; and

WHEREAS the Vice President for Business and Administration has submitted a report on waivers of competitive bidding requirements granted for the period of July-September 1989, and the Fiscal Affairs Committee recommends the acceptance of this report:

NOW THEREFORE

BE IT RESOLVED, That the report on waivers of competitive bidding requirements for the period of July-September 1989, is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 90-56

Synopsis: The Fiscal Affairs Committee recommended the approval of the report of research contracts, grants, and gifts and the summary for October 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund and The Ohio State University Foundation:

December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund and The Ohio State University Foundation during the month of October 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

### SUMMARY FOR OCTOBER 1989

#### Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	94	\$9,354,349.73
Engineering Experiment Station	40	\$ 500,082.00
Total	134	\$9,854,431.73

#### The Ohio State University Development Fund

##### Establishment of Named Funds

The Lewis E. Miller and Dorothy Hermann Miller Research Fund (For research within the School of Journalism)	\$ 300,000.00
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The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund (Scholarships - School of Journalism, Departments of Aeronautical and Astronautical Engineering and Electrical Engineering, and Department of Astronomy)	\$ 21,823.00
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The Ohio State University Mortar Board Alumni Endowment Fund (To support The Ohio State University Mortar Board active chapter in funding selected programs and activities)	\$ 20,000.00
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The Leona Roffes and Ernest Michael Heldt Memorial Scholarship Fund (Scholarships - College of Education)	\$ 15,000.00
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#### Change in Name and Description of Named Fund

From: The J. M. Shepherd Scholarship Fund  
To: The Shepherd Scholarship Award

December 1, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR OCTOBER 1989 (contd)**

The Ohio State University Development Fund (contd)

Change in Description of Named Fund

William H. Havener, M.D., Chair in Ophthalmology  
Research Fund

The Ohio State University Foundation

Approval of Description and Establishment of Fund

The Zirkle Endowment for Undergraduate Instruction for Innovation

December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - October 1989

#### Federal Research Contracts/Grants

\$4,711,682.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XII, Center for Human Resource Research (R. J. Olsen), 1 October 1989 through 30 June 1992. (Project 766448 - Continuation)

\$705,357.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, OSU Comprehensive Cancer Center Support (CORE) Grant, Comprehensive Cancer Center (D. E. Schuller), 1 July 1989 through 30 June 1990. (Project 763976 - Continuation)

\$251,542.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Effects of Nurse Case Managed Home Care for HIV Patients, Department of Family and Community Nursing (J. T. Nickel), 30 September 1989 through 31 August 1990. (Project 767873 - New)

\$246,950.00 - Department of Agriculture, Science and Education, Peoria, Illinois, Cooperative Agricultural Research, Office of the Director - OARDC (N. D. Schmidt and R. F. Edwards), 1 October 1989 through 30 September 1990. (Project 766472 - Continuation)

\$166,272.00 - Department of Education, Washington, D.C., Supplemental Financial Aid for Graduate Students in Mathematics, Department of Mathematics (J. R. Leitzel), 1 January 1990 through 31 December 1990. (Project 767099 - Continuation)

\$152,280.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Intra Oral Grafting of Mucosal Equivalents Produced In Vitro, Diagnostic Services (C. F. Shuler), 30 September 1989 through 29 September 1990. (Project 767863 - New)

\$150,102.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, A Cooperative Tropical Paleoclimatic Ice Core Study in the Cordillera Blanca, Peru and Its Relationship to Global Climatic Variability, Byrd Polar Research Center (L. G. Thompson and E. Mosley-Thompson), 1 September 1989 through 31 August 1990. (Project 767881 - New)

\$135,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Protective Antigens of Infectious Bursal Disease Virus: Molecular Studies on Viral Proteins, Food Animal Health Research Program - OARDC (D. J. Jackwood and Y. M. Saif), 1 September 1989 through 31 August 1992. (Project 767784 - New)

\$116,542.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Cornhill), 1 March 1990 through 28 February 1991. (Project 764727 - Continuation)

\$107,590.00 - Department of Agriculture, Science and Education, Washington, D.C., Effect of Sorption on Fate of Pesticides in Subsurface Environments, Department of Agronomy - OARDC (S. J. Traina) and Department of Agronomy (G. K. Sims), 1 September 1989 through 31 August 1991. (Project 767860 - New)

December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$93,452.00 - Department of Health and Human Services, National Institute of Dental Research, Bethesda, Maryland, Fracture Properties of Dental Ceramics, Restorative and Prosthetic Dentistry (S. F. Rosenstiel), 29 September 1989 through 28 September 1990. (Project 767886 - New)

\$91,197.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Pharmacology of Dideoxynucleosides in Small Intestinal Epithelium, College of Pharmacy (J. L. Au), 30 September 1989 through 31 July 1990. (Project 767895 - New)

\$89,909.00 - Department of Agriculture, Science and Education, Washington, D.C., Development of Antisera and Diagnostic Tests for Serogrouping Avian Rotaviruses, Food Animal Health Research Program - OARDC (L. J. Saif and Y. M. Saif), 1 September 1989 through 31 August 1991. (Project 767536 - New)

\$83,462.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 17 October 1989 through 13 April 1990. (Project 767472 - Continuation)

\$72,100.00 - National Science Foundation, Washington, D.C., Superconductive Glass State and Other Properties of Granular Materials, Department of Physics (D. G. Stroud), 1 April 1990 through 31 March 1991. (Project 766614 - Continuation)

\$69,584.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Serving Persons with Disabilities in Vocational Education: Training the Teacher Trainers, Center on Education and Training for Employment (R. D. Ryan), 1 September 1989 through 31 August 1990. (Project 767903 - New)

\$68,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Proposal to Study Crystallization of the Glassy Grain Boundary Phase in Silicon Nitride Ceramics, Department of Materials Science and Engineering (C. H. Drummond), 1 October 1989 through 30 September 1990. (Project 766445 - Continuation)

\$54,000.00 - National Science Foundation, Washington, D.C., Theoretical Studies of Equilibrium and Non-Equilibrium Multi-Layer Films, Department of Physics (W. F. Saam and C. A. Ebner), 1 May 1990 through 30 April 1991. (Project 766478 - Continuation)

\$50,000.00 - Department of Education, Office of Special Education and Rehabilitation Services, Washington, D.C., Demonstration and Evaluation of an Expert System for Interpretation of Cerebral Palsy Gait, Department of Computer and Information Science (T. C. Bylander), 1 October 1989 through 30 September 1990. (Project 767856 - New)

\$48,000.00 - Department of Agriculture, Science and Education, Washington, D.C., Role of Carbon and Nitrogen Partitioning in Tolerance to Moisture Stress in Soybean, Department of Agronomy - OARDC and Department of Agronomy (B. A. McBlain), 1 September 1989 through 31 August 1990. (Project 767848 - New)

December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$45,940.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Corneal Endothelial Pleomorphism From Contact Lenses, College of Optometry (J. P. Schoessler), 30 September 1989 through 31 July 1990. (Project 764852 - Continuation)

\$43,371.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, The Ohio State University Advanced Glaucoma Intervention Study, Department of Ophthalmology (P. A. Weber), 1 September 1989 through 31 August 1990. (Project 766355 - Continuation)

\$36,942.00 - Department of Labor, Bureau of Labor Statistics, Washington, D.C., National Longitudinal Surveys of Labor Market Experience, Round XI, Center for Human Resource Research (R. J. Olsen), 1 October 1989 through 30 September 1990. (Project 766448 - Continuation)

\$36,754.00 - Department of Agriculture, Science and Education, Washington, D.C., Economic Assessment of Fungicide Benefits, Department of Plant Pathology - OARDC, Department of Plant Pathology, and Cooperative Extension State Operations (C. R. Curtis), Department of Entomology - OARDC (F. H. Hall), and Department of Horticulture - OARDC, Department of Horticulture, and Department of Agricultural Economics and Rural Sociology (W. T. Rhodus), 1 September 1989 through 31 August 1990. (Project 767849 - New)

\$36,333.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Development of Mania Rating Scales for Children Age 6-12, Department of Psychiatry (M. A. Fristad), 30 September 1989 through 31 August 1990. (Project 767885 - New)

\$35,000.00 - United States Institute of Peace, Washington, D.C., Parchment and Swords: The Preconditions and Consequences of Arms Control Agreements, Mershon Center for Education (J. Kruzel), 1 October 1989 through 30 June 1990. (Project 767842 - New)

\$33,500.00 - Department of Health and Human Services, National Library of Medicine, Bethesda, Maryland, Towards Integrating Associative and Deep Knowledge in Diagnosis, Department of Pathology (J. W. Smith and N. K. Amra), 1 July 1990 through 30 June 1991. (Project 767887 - New)

\$32,739.00 - Department of Health and Human Services, Alcohol, Drug Abuse, and Mental Health Administration, Rockville, Maryland, Vocal Perception in Apes: Physiological and Neuroimaging Approaches, Department of Psychology (G. G. Berntson), 30 September 1989 through 31 August 1990. (Project 767879 - New)

\$32,000.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Moorestown, New Jersey, Cooperative National Plant Pest Survey and Detection Program (Ohio Plant Pest Survey), Cooperative Extension State Operations (H. R. Willson), 1 October 1989 through 30 September 1990. (Project 767104 - Continuation)

\$31,750.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, *In Vitro* and *In Vivo* Persistence of Canine Distemper Virus, Department of Veterinary Pathobiology (G. S. Krakowka and M. J. Oglesbee), 1 September 1989 through 31 August 1990. (Project 767020 - Continuation)

December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$30,000.00 - Department of Defense, Defense Supply Service, Washington, D.C., Military Adaptation, Mershon Center for Education (A. R. Millett) and Department of History (W. Murray), 29 September 1989 through 29 November 1989. (Project 767852 - New)

\$28,000.00 - Department of Health and Human Services, National Cancer Institute, Bethesda Maryland, Humoral Factors and Cancer-Associated Hypercalcemia, Department of Veterinary Pathobiology (C. C. Capen) and Department of Radiology (J. I. Merryman), 1 October 1989 through 30 September 1990. (Project 767855 - New)

\$28,000.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Fc Receptor Signal Transduction in the Human Platelet, Department of Internal Medicine (C. L. Anderson and G. P. Anderson), 1 November 1989 through 31 October 1990. (Project 767145 - Continuation)

\$23,455.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., A Multifaceted Mentoring Program for Minority Students on a Regional Campus, Mansfield Campus (J. O. Riedl), 1 September 1989 through 31 August 1990. (Project 767846 - Continuation)

\$19,927.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Head Injury Trauma Research Program, Department of Mechanical Engineering (R. L. Stainaker), 15 September 1989 through 31 December 1989. (Project 767854 - New)

\$18,000.00 - National Aeronautics and Space Administration, Washington, D.C., High Temperature Superconducting Thin Film, Department of Electrical Engineering (G. J. Valco), 1 October 1989 through 30 September 1990. (Project 767084 - Continuation)

\$17,000.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, Maryland, Ultraviolet Spectroscopy of Planetary Nebulae: Cosmological Implications, Department of Astronomy (G. J. Ferland, B. M. Peterson, and E. Capriotti), 15 December 1989 through 14 December 1990. (Project 766473 - Continuation)

\$10,000.00 - Department of Agriculture, Economic Research Service, Washington, D.C., European Community 1992: Implications for Food Processors and Distributors, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (D. R. Henderson), 28 September 1989 through 31 January 1991. (Project 767850 - New)

\$9,720.00 - Department of Health and Human Services, National Institute of Mental Health, Rockville, Maryland, Muscarinic Receptor Abnormalities in Affective Illness, Department of Psychiatry (S. C. Dilsaver), 1 August 1989 through 31 July 1990. (Project 766385 - Continuation)

\$9,000.00 - Environmental Protection Agency, Chicago, Illinois, Ohio Wastewater Treatment Conference, Cooperative Extension State Operations (K. M. Mancil), 1 October 1989 through 30 September 1990. (Project 767875 - New)

December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$7,507.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, A Workshop on Analytical Methods in Unsteady Separation, Department of Mechanical Engineering (A. T. Conlisk) and Department of Aeronautical and Astronautical Engineering (R. J. Bodonyi), 1 October 1989 through 30 September 1990. (Project 767835 - New)

\$7,243.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Collaborative Ocular Melanoma Study -- Clinical Center, Department of Ophthalmology (F. H. Davidorf), 1 August 1989 through 31 July 1990. (Project 765050 - Continuation)

\$5,000.00 - National Foundation on the Arts and Humanities, National Endowment for the Arts, Washington, D.C., New Music: OSU Hosts International Computer Music Conference, School of Music (D. Butler and T. Wells), 1 September 1989 through 28 February 1990. (Project 767880 - New)

\$3,000.00 - National Foundation on the Arts and Humanities, National Endowment for the Arts, Washington, D.C., A New Digital Audio Conversion System, School of Music (T. Wells), 1 October 1989 through 31 March 1990. (Project 767882 - New)

\$2,694.00 - Department of Health and Human Services, National Eye Institute, Bethesda, Maryland, Argon Laser Trabeculoplasty Glaucoma Trial, Department of Ophthalmology (P. A. Weber), 22 February 1989 through 21 February 1990. (Project 764587 - Continuation)

**TOTAL - FEDERAL AWARDS**

**\$8,045,896.00**

#### **State of Ohio Research Contracts/Grants**

\$119,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Workshops for Teachers on Humane Care and Use of Animals, Office of University Laboratory Animal Resources (J. F. Cornhill), 20 September 1989 through 31 December 1990. (Project 767876 - New)

\$54,800.00 - State of Ohio, Department of Health, Columbus, Ohio, Comprehensive Adult Hemophilia Clinic, Department of Internal Medicine (S. P. Balcerzak), 1 July 1989 through 30 June 1990. (Project 762760 - Continuation)

\$50,000.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Increasing the Research Capability of the Center for Real Estate Education and Research, Academic Faculty of Finance (R. L. Racster), 1 October 1989 through 30 September 1990. (Project 767841 - New)

\$50,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Central Ohio Prescribed Pediatric Extended Care Program, Nisonger Center (S. E. Thompson, E. King, and S. Schroeder), 1 October 1989 through 30 September 1990. (Project 767832 - New)

\$48,252.00 - State of Ohio, Board of Regents, Columbus, Ohio, Mathematics Teaching Skills Training for Occupational Work Adjustment Instructors, Center on Education and Training for Employment (R. D. Ryan), 15 September 1989 through 31 December 1990. (Project 767904 - New)



December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### State of Ohio Research Contracts/Grants (contd)

\$20,520.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Current Issues in Managing a Real Estate Company or Office, Academic Faculty of Finance (R. L. Racster), 1 October 1989 through 30 September 1990. (Project 767851 - New)

\$9,975.00 - State of Ohio, Department of Education, Columbus, Ohio, Promoting Nutrition Education for Persons with Developmental Disabilities Through the Ohio Nutrition Education and Training (NET) Program, Nisonger Center (B. W. Kozlowski), 1 October 1989 through 30 September 1990. (Project 767845 - New)

TOTAL - STATE OF OHIO AWARDS \$ 352,547 00

#### Industrial Research Contracts/Grants

\$92,908.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Tenidap Sodium to Alter the Pharmacodynamics and Plasma Protein Binding of Warfarin in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 1 June 1989 through 31 May 1990. (Project 767865 - New)

\$50,000.00 - Brunswick Corporation, Marion, Virginia, Radome Research, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 October 1989 through 31 March 1990. (Project 767500 - Continuation)

\$43,500.00 - Burroughs Wellcome Company, Research Triangle Park, North Carolina, An Open Continuation of Lamotrigine Protocol 05 in Epileptic Outpatients, Department of Neurology (M. E. Drake, Jr.), 1 September 1989 through 31 August 1990. (Project 767839 - Continuation)

\$40,069.00 - Calreco, Inc., Van Nuys, California, Evaluation of Carob Fiber as Therapy for Chronic Diarrhea in Dogs, Department of Veterinary Clinical Sciences (R. G. Sherding and C. A. Buffington), 1 September 1989 through 31 August 1990. (Project 767871 - New)

\$24,988.00 - McDonnell Douglas Technologies, Inc., San Diego, California, Dual Frequency Radome, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 24 July 1989 through 30 November 1989. (Project 767853 - Continuation)

\$20,722.00 - Pfizer, Inc., Groton, Connecticut, Study No. 110-003-501, Department of Pharmacology (N. Gerber), 20 April 1989 through 19 April 1990. (Project 767514 - Continuation)

\$19,372.00 - Warner-Lambert Company, Morris Plains, New Jersey, In Vitro Evaluation of Antimicrobial Activity of Four Experimental Oral Antiseptics, Oral Biology (S. Rosen), 1 October 1989 through 31 December 1989. (Project 767870 - New)

\$15,000.00 - General Electric Plastics, Southfield, Michigan, Research and Development of an Advanced Class-8 Truck Cab, Department of Industrial Design (R. F. Butter and H. Goeller), 19 September 1989 through 18 September 1990. (Project 767123 - Continuation)

\$13,824.00 - Pfizer, Inc., Groton, Connecticut, Study No. 124-002-501, Department of Pharmacology (N. Gerber), 17 April 1989 through 16 April 1990. (Project 767513 - Continuation)

December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

\$7,701.78 - Abbott Laboratories, Abbott Park, Illinois, A Comparative Study of Polymer Coated Erythromycin Versus Doxycycline in the Treatment of Chlamydia trachomatis Genital Infections, College of Pharmacy (J. A. Visconti) and University Health Service (D. I. Charles), 27 January 1988 through 26 January 1990. (Project 766570 - Continuation)

\$4,622.00 - Astra Alab AB, Sodertälje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1989 through 31 December 1989. (Project 762165 - Continuation)

TOTAL - INDUSTRIAL AWARDS

\$ 332,706.78

#### Other Non-Federal Research Contracts/Grants

\$110,563.00 - University of Texas, Dallas, Texas, Yeast Mitochondrial DNA Recombination, Department of Molecular Genetics (P. S. Perlman), 1 September 1989 through 31 August 1990. (Project 765272 - Continuation)

\$70,185.00 - Medical College of Ohio, Toledo, Ohio, Health Promotion, Disease Prevention for Older, Underserved, and Minority Older Women, Medicine Administration (G. L. Trzebiatowski), 1 October 1989 through 30 September 1990. (Project 767114 - Continuation)

\$45,459.00 - Helen Keller National Center for Deaf-Blind Youth and Adults, Sands Point, New York, Technical Assistance to Helen Keller Center, Education Administration and School of Health, Physical Education, and Recreation (K. D. Arnold), 1 October 1989 through 30 September 1990. (Project 767867 - Continuation)

\$40,000.00 - Twenty Members of the National Alliance of Community and Technical Colleges, National Alliance of Community and Technical Colleges, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767681 - Continuation)

\$38,000.00 - Pennsylvania Department of Education, Harrisburg, Pennsylvania, Consortium for the Development of Professional Materials for Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767897 - Continuation)

\$35,526.00 - Southeastern Poultry and Egg Association, Decatur, Georgia, Dynamics of Influenza Virus Infection of Chicken Kidney and Its Involvement as a Potential Site for Viral Persistence, Department of Veterinary Pathobiology (D. E. Swayne), 1 November 1989 through 31 October 1990. (Project 767861 - New)

\$32,890.00 - American Heart Association, Dallas, Texas, How Do Actin and Gap Filaments Align at the Fasia Adherens?, Department of Veterinary Anatomy and Cellular Biology (M. Yamaguchi), 1 October 1989 through 30 September 1990. (Project 766328 - Continuation)

\$32,528.00 - National Multiple Sclerosis Society, New York, New York, Complement Medicated B-Cell Activation in Multiple Sclerosis, Department of Neurology (K. W. Rammoohan), 1 October 1989 through 30 September 1990. (Project 767844 - New)

December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Other Non-Federal Research Contracts/Grants (contd)

\$30,000.00 - Indiana Michigan Power Company, Bridgman, Michigan, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1989 through 31 January 1990. (Project 767901 - New)

\$28,477.00 - Rutgers University, Piscataway, New Jersey, The Classification of the Finite Simple Group, Department of Mathematics (R. M. Solomon), 1 June 1989 through 31 May 1990. (Project 767618 - New)

\$24,000.00 - Battelle Memorial Institute, Columbus, Ohio, Enhanced Coal Biodesulfurization Through the Genetic Modification of Bacterial Strains, Department of Microbiology (O. H. Tuovinen), 1 October 1989 through 30 September 1990. (Project 767902 - New)

\$24,000.00 - Florida International University, Miami, Florida, Consortium for the Development of Professional Materials for Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 July 1989 through 30 June 1990. (Project 767824 - Continuation)

\$18,700.00 and Personnel Services - Washington State Department of Natural Resources, Olympia, Washington, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 August 1989 through 31 January 1990. (Project 766219 - Continuation) (Approximate Dollar Value \$6,300)

\$17,012.00 - Corporation for Public Broadcasting, Washington, D.C., Workshops on Telephone-Assisted Language Methodology for Language Instructors, Slavic and East European Languages and Literatures (L. I. Twarog), 15 September 1989 through 5 May 1990. (Project 767859 - New)

\$13,750.00 - American Cancer Society, Ohio Division, Inc., Dublin, Ohio, Lipoprotein Gene Expression in Pediatric and Adult Astrocytomas, Department of Veterinary Pathobiology (J. W. DeWille), 1 November 1989 through 31 October 1990. (Project 767890 - New)

\$11,250.00 - Columbus Health Department, Columbus, Ohio, Coordination of Patient Services in Clinical Trials, Department of Internal Medicine (R. J. Fass and M. F. Para), 1 April 1989 through 30 June 1989. (Project 767667 - New)

\$7,879.00 - Children's Hospital Research Foundation, Columbus, Ohio, Immune Effector Vasoactive Intestinal Peptide Receptors, Department of Internal Medicine (T. M. O'Dorisio), 1 July 1989 through 30 June 1990. (Project 767857 - New)

\$7,830.00 - University of Washington, Seattle, Washington, Paleoclimatology of the Holocene and the Last Interglaciation, Byrd Polar Research Center and Department of Zoology (P. A. Colinvaux), 1 July 1989 through 30 September 1989. (Project 767877 - New)

\$5,381.00 - American Seed Trade Association, Washington, D.C., The Use of Mono- and Polyclonal Based Serodiagnostic Assays for the Detection of Clavibacter michiganense pv. michiganense Infested Tomato Seed, Department of Plant Pathology - OARDC and Department of Plant Pathology (S. T. Nameth), 1 October 1989 through 30 September 1990. (Project 767847 - New)

December 1, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Other Non-Federal Research Contracts/Grants (contd)

\$4,509.40 - Southeastern Poultry and Egg Association, Decatur, Georgia, Rapid Test for the Detection of Campylobacter jejuni in Poultry, Department of Veterinary Preventive Medicine (J. D. Monfort), 1 October 1989 through 30 September 1990. (Project 767862 - New)

\$3,500.00 - Washington State Board for Vocational Education, Olympia, Washington, Participation in a Study on the Washington Institute of Applied Technology, Center on Education and Training for Employment (R. D. Ryan), 16 August 1989 through 31 August 1989. (Project 767893 - New)

\$3,200.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Cellular Dynamics of Failure-Prone Cardiomyocytes, Department of Physiology (B. T. Stokes), 29 September 1989 through 30 June 1990. (Project 767558 - Continuation)

\$3,000.00 - Government of the Federated States of Micronesia, Kolonia, Pohnpei, Federated Micronesia, A Study to Prepare a Management Plan for the Improvement of Educational and Manpower Systems for the Federated States of Micronesia, Center on Education and Training for Employment (R. D. Ryan), 1 August 1989 through 30 December 1989. (Project 767715 - Continuation)

\$3,000.00 - Washington State Board for Vocational Education, Olympia, Washington, Review and Comment on the Conclusions of the Study of the Washington Institute of Applied Technology, Center on Education and Training for Employment (R. D. Ryan), 1 September 1989 through 31 December 1989. (Project 767894 - New)

\$2,956.00 - Springfield-Clark Joint Vocational School Board of Education, Springfield, Ohio, Factors That Influence a Student Not to Enter Into a High School Vocational Curriculum, Department of Agricultural Education (R. K. Barrick), 1 August 1989 through 30 April 1990. (Project 767827 - New)

\$2,700.00 - American Nurses' Foundation, Inc., Kansas City, Missouri, Fatigue and Pregnancy, Department of Life Span Process (M. S. Pitzer), 1 October 1989 through 30 September 1990. (Project 767884 - New)

\$2,664.55 - American Nurses' Foundation, Inc., Kansas City, Missouri, Factors Influencing Adult Grief After a Parent's Death, Department of Family and Community Nursing (M. G. MacVicar), 1 October 1989 through 30 September 1990. (Project 767896 - New)

\$1,540.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 March 1989 through 31 May 1989. (Project 765208 - Continuation)

\$1,000.00 - American Agricultural Economics Association, Ames, Iowa, Priority Data on Agricultural and Rural Areas: A Survey of Agricultural and Rural Social Scientists, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak) and Department of Agricultural Economics and Rural Sociology (W. S. Chern and L. Tweeten), 1 April 1988 through 31 December 1989. (Project 766867 - Continuation)

December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$1,000.00 - Consolidated Edison of New York, Peekskill, New York, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

\$700.00 - Columbus Zoo, Powell, Ohio, Cooperative Grants Program -- The Columbus Zoo and The Ohio State University: Ovarian Steroids in Serum and Urine During the Estrous Cycle of African and Asian Elephants, Department of Zoology (J. D. Harder), 1 October 1989 through 31 December 1989. (Project 767089 - Continuation)

**TOTAL - OTHER NON-FEDERAL AWARDS** **\$ 623,199.95**

### **ENGINEERING EXPERIMENT STATION**

#### **Industrial and Other Sponsored Research and Development**

\$209,243.00 - from EMTEC, Kettering, Ohio, for "Casting Fine Strength Rapidly Solidified Wire," under the direction of the department of Materials Science and Engineering for the period October 1, 1989 through September 30, 1991. (312519)

\$155,500.00 - from EMTEC, Kettering, Ohio, for "Microstructure and Modeling for Quality Castings," under the direction of the department of Materials Science and Engineering for the period October 1, 1989 through September 30, 1992. (312517)

\$92,800.00 - from AT&T Network Systems, Columbus, Ohio, for "Application of Operations Research in Manufacturing," under the direction of the department of Industrial and Systems Engineering for the period October 1, 1989 through September 30, 1990. (529825)

\$28,039.00 - from 29 sponsors of 35 development projects under the direction of three research areas of the College.

\$10,000.00 - from Hughes Aircraft Corp., Malibu, California, for "Interactive CAD Environment for MODFETS and Superlattices," under the direction of the department of Electrical Engineering for the period September 1, 1989 through December 31, 1989. (312518)

\$4,500.00 - from International Adsorption Society, Inc., Columbus, Ohio, for "Newsletter for the International Adsorption Society," under the direction of the department of Chemical Engineering for the period October 1, 1989 through September 30, 1992. (529824)

**TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH** **\$ 500,082.00**

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

**Establishment of Named Funds**

**The Lewis E. Miller and Dorothy Hermann Miller  
Research Fund**

The Lewis E. Miller and Dorothy Hermann Miller Research Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estates of Dorothy Hermann Miller (Certificate of Pharmaceutical Chemist, '21) and her husband, Lewis E. Miller (B.S.Bus.Adm. '23).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for research by faculty members or graduate students within the School of Journalism, or for scholarships for research, with no limitation on the nature of the research. The recipients of the research awards shall be determined by a committee of faculty members appointed annually by the Director of the School of Journalism.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative official, in order to carry out the desire of the donors.

**The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund**

The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. Kenneth E. Kissell (B.S., Arts & Sci., '49; M.S., Physics, '58; Ph.D., Astronomy, '69) of Annandale, Virginia, and a native of Columbiana, Ohio. The Bollinger-Kissell Endowment honors the career of Loren E. Bollinger (B.S.E.E. '48; M.S., Aero Engr., '56) a science columnist with The Columbus Dispatch and instructor, Department of Aeronautical and Astronautical Engineering (1956-1966), as well as the friendship between Dr. Kissell and Mr. Bollinger.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more annual scholarships in the School of Journalism, College of Engineering (Departments of Aeronautical and Astronautical Engineering and Electrical Engineering), and the Department of Astronomy. The scholarships shall benefit junior or senior students in the aforementioned programs who show a demonstrated interest in science writing. Recipients should be residents of the State of Ohio with a preference for students from the northeast quadrant of the State. Scholarship recipients shall be chosen by the University Committee on Student Financial Aid, in consultation with the appropriate department chairperson.

December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Loren E. Bollinger-Kenneth E. Kissell Endowment Fund (contd)**

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donor.

##### **The Ohio State University Mortar Board Alumni Endowment Fund**

The Ohio State University Mortar Board Alumni Endowment Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from members, alumni, and friends of Mortar Board to commemorate the founding of Mortar Board at The Ohio State University in 1914 and to recognize Mortar Board's outstanding tradition of excellence and its contributions to the University.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used for any or all of the following:

To support timely and regular communication with the Mortar Board alumni to enhance their continuing interest and participation in Mortar Board sponsored programs and activities.

To support The Ohio State University Mortar Board active chapter in funding selected programs and activities.

To support selected Ohio State University programs which exemplify the ideals of Mortar Board.

All expenditures of income shall be approved in advance by the affirmative vote of a majority of the Mortar Board Alumni Council Allocations Committee. The Allocations Committee shall be composed of the president of The Ohio State University Mortar Board active chapter, the senior advisor to the Mortar Board chapter, and three Mortar Board alumni selected by the Mortar Board Alumni Council.

It is the desire of the donors that this fund should benefit the University in perpetuity. Should the need for this fund cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate administrative official of the University who is then directly responsible for the Mortar Board Honor Society, in order to carry out the desire of the donors.

December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Leona Rolles and Ernest Michael Heldt Memorial Scholarship Fund**

The Leona Rolles and Ernest Michael Heldt Memorial Scholarship Fund was established December 1, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Lewis Rolles Heldt (M.A. '51) and Ruth V. Heldt, of Toledo, Ohio, in memory of the parents of Lewis Rolles Heldt.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to undergraduate or graduate students in the College of Education. Selection is to be based solely on academic excellence. Selection of the recipients shall be made by the Dean of the College of Education or his or her designee, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the appropriate college dean, department chairperson or program administrative officer, in order to carry out the desire of the donor.

#### **Change in Name and Description of Named Fund**

##### **The Shepherd Scholarship Award**

The J. M. Shepherd Scholarship Fund was established April 3, 1987, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from J. M. Shepherd (B.Cer.E. '58; M.B.A. '59). The name and description were revised December 1, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarship awards to graduates of Withrow High School (Cincinnati, Ohio) who intend to enroll in the College of Engineering. Recipients shall have evidence of financial need and promise of academic achievement in any engineering discipline. If there are no eligible Withrow graduates, the award should be made available to any deserving engineering student, with preference to a graduate of any other Cincinnati public high school. The award recipient shall be selected by the Dean of the College of Engineering or his or her designee in consultation with the University Committee on Student Financial Aid. This scholarship can be renewed annually until graduation as long as each recipient maintains progress toward a degree and adequate academic qualifications.



December 1, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Change in Name and Description of Named Fund (contd)**

##### **The Shepherd Scholarship Award (contd)**

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer, in order to carry out the desire of the donor.

#### **Change in Description of Named Fund**

##### **William H. Havener, M.D., Chair in Ophthalmology Research Fund**

The William H. Havener, M.D., Chair in Ophthalmology Research Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from friends and colleagues in honor of William H. Havener, M.D. The description was revised December 1, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to provide support for the work of a distinguished scholar in the Department of Ophthalmology within the College of Medicine. The recipient will be recommended by a search committee, with recommendation from the Dean of the College of Medicine to the Provost, and approved by the Board of Trustees.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then the income shall be used for research into the subject of diseases of the eye as designated by the Board of Trustees, in consultation with the Dean of the College of Medicine, in order to carry out the desire of the donors.

### **THE OHIO STATE UNIVERSITY FOUNDATION**

#### **Approval of Description and Establishment of Fund**

##### **The Zirkle Endowment for Undergraduate Instruction for Innovation**

The Zirkle Endowment for Undergraduate Instruction for Innovation was established December 1, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University, Office of Academic Affairs.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY FOUNDATION (contd)**

**Approval of Description and Establishment of Fund (contd)**

**The Zirkle Endowment for  
Undergraduate Instruction for Innovation (contd)**

Income provided by the Foundation shall be used to develop and promote undergraduate instruction for innovation. Funds may be used to support faculty development; recognize and reward faculty and students who make significant contributions to innovation; encourage students to engage in new activities which generate creative thinking; fund faculty efforts to develop and implement creative experiences in the undergraduate curriculum; and support other activities which contribute to innovation and creativity as fundamental to undergraduate education. The Vice President for Academic Affairs and Provost or his/her designee shall have responsibility for authorizing expenditures from this fund.

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**Employment of Architects/Engineers**

**Background**

**Biotechnology Support Facility**

This project will provide a Plant and Animal Support Facility, with capabilities for future expansion, to serve the Biotechnology Center in Rightmire Hall. The major components of the complex will be a 3,000 square foot headhouse, six 1,000 square foot greenhouses, a 1,200 square foot animal holding facility, a 2,500 square foot growth chamber room, and one 5-10 acre exterior plot.

Initial planning funds in the amount of \$200,000 are available from University funds. Construction funds for the project are anticipated from State funds. Construction and site preparation costs for the project are estimated at \$2,150,000.00, and the total estimated project cost is \$2,700,000.00.

**Botany and Zoology Greenhouse**

This project will demolish existing ranges and construct a new greenhouse complex with standard environmental controls and improved facilities for research and teaching in the biological sciences. New facilities to be provided include 14,700 square foot of greenhouses, 10,390 square foot of botany space, 4,320 square foot of entomology space, a 2,620 square foot growth chamber building, 1,300 square foot for entomology research labs, a 350 square foot entomology quarantine facility, a 420 square foot entomology insectary, a 3,400 square foot headhouse for biological sciences, and a 1,350 square foot garden area.

Initial planning funds in the amount of \$200,000 are available from University funds. Construction funds for the project are anticipated from State funds. Construction, demolition, and site preparation costs for the project are estimated at \$2,170,000.00 and the total estimated project cost is \$2,700,000.00.

(See Appendix XXXVII for maps, page 621.)

December 1, 1989 meeting, Board of Trustees

## **EMPLOYMENT OF ARCHITECTS/ENGINEERS**

Resolution No. 90-57

### **BIOTECHNOLOGY SUPPORT FACILITY BOTANY AND ZOOLOGY GREENHOUSE**

**Synopsis:** The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms for the Biotechnology Support Facility and Botany and Zoology greenhouse projects.

**WHEREAS** the Biotechnology Support Facility project will provide a Plant and Animal Support Facility; and

**WHEREAS** the total planning funds available for the project is \$200,000.00, with funding provided from University funds; and

**WHEREAS** the Botany and Zoology Greenhouse project will demolish existing ranges and construct a new greenhouse complex; and

**WHEREAS** the total planning funds available for the project is \$200,000.00, with funding provided from University funds:

#### **NOW THEREFORE**

**BE IT RESOLVED**, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, in conjunction with the Department of Administrative Services, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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### **Request for Construction Bids**

#### **Background**

#### **Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I**

This project will repair and upgrade dormitory and auxiliary spaces in Morrill and Lincoln Towers to improve the quality of life and reduce maintenance costs. This project will be completed in two phases. The first phase will be to complete two floors of Morrill Tower to test scheduling and completeness of construction documents. The second phase will complete the remaining floors of Morrill Tower and the dormitory floors of Lincoln Tower.

Construction funds for Phase I of the project are available from Residence and Dining Halls, and construction costs are estimated at \$1,210,000.00. The total estimated project cost for Phase I is \$1,287,020.00.

(See Appendix XXXVIII for map, page 625).

December 1, 1989 meeting, Board of Trustees

## **REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 90-58

### **MORRILL TOWER AND LINCOLN TOWER RESIDENCE HALLS UPGRADE TREATMENT - PHASE I**

Synopsis: The Fiscal Affairs Committee recommended authorization to request construction bids for the Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I project.

WHEREAS the Morrill Tower and Lincoln Tower Residence Halls Upgrade Treatment - Phase I project will repair and upgrade dormitory and auxiliary spaces to improve the quality of life and reduce maintenance costs; and

WHEREAS the total estimated cost of project is \$1,287,020.00, with the estimated construction cost being \$1,210,000.00, with funding provided from University funds:

#### **NOW THEREFORE**

BE IT RESOLVED That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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### **Employment of Architects/Engineers and Request for Construction Bids**

#### **Background**

##### **1501 Neil Avenue Renovation**

This project will repair the roofs, windows, and exterior walls, provide site improvements, renovate the mechanical and electrical systems, make necessary fire, safety, and handicapped improvements, and create a functional environment for the Mershon Center. This project will also make minor renovations to the property located at 1478 Pennsylvania Avenue to house the Mershon Center while renovations are taking place at 1501 Neil Avenue.

Construction funds are available from State appropriations and construction costs are estimated at \$1,042,000.00. The total estimated project cost, which includes the purchase of the building, is estimated at \$3,000,000.00.

##### **Astronomical Instrumentation Facility**

This project will construct an addition to the north side of the Maintenance Building to house personnel and equipment for the design and construction of instruments for making astronomical observations in the visible and near infrared wavelengths for the new 11.3 meter Columbus Project telescope and the existing 1.8 meter Perkins telescope.

December 1, 1989 meeting, Board of Trustees

**Employment of Architects/Engineers and  
Request for Construction Bids (contd)**

Background (contd)

Construction funds are available from University funds and construction costs are estimated at \$1,066,000.00. The total estimated project cost is \$1,300,000.00.

(See Appendix XXXVIV for maps, page 627.)

**EMPLOYMENT OF ARCHITECTS/ENGINEERS AND  
REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 90-59

**1501 NEIL AVENUE RENOVATION  
ASTRONOMICAL INSTRUMENTATION FACILITY**

**Synopsis:** The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the 1501 Neil Avenue Renovation and the Astronomical Instrumentation Facility projects.

WHEREAS the 1501 Neil Avenue Renovation project will create a functional environment to house the Mershon Center; and

WHEREAS the total estimated cost of the project is \$3,000,000.00, with the estimated construction cost being \$1,042,000.00, with funding provided from State Appropriations; and

WHEREAS the Astronomical Instrumentation Facility project will construct an addition to the north side of the Maintenance Building to house personnel and equipment for the design and construction of instruments for making astronomical observations; and

WHEREAS the total estimated cost of the project is \$1,300,000.00, with the estimated construction cost being \$1,066,000.00, with funding provided from the University funds:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project and that the fees for these services be negotiated between the firms selected and the State of Ohio or the University, as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established State of Ohio and University procedures, and if satisfactory bids are received, to recommend award or award contracts, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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December 1, 1989 meeting, Board of Trustees

**Report of Award of Contracts and  
Establishment of Contingency Funds**

**Background**

(See Appendix XXXX for a complete tabulation of bids on all projects and locator map, page 631. Amounts shown with an \* include accepted alternates.)

**Veterinary Hospital - Sprinkler For Large Animal Wards**

This project will provide a fire-suppression sprinkler system to protect against fire and smoke damage to the building and occupants of the large animal wards. The total project cost is \$62,160.00; funding is provided from State capital appropriations (House Bill 810, Basic Renovations). The estimated completion date is May, 1990. The contract awarded is as follows:

Fire Protection Contract:	Culligan Fire, Cincinnati, Ohio
Amount:	\$56,000.00 *
Estimate:	\$118,000.00 *
Total Contracts:	\$56,000.00 *
Contingency Allowance:	\$4,160.00 (9.9% of construction cost)
Total Project Cost:	\$62,160.00

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 90-60

**VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARDS**

Synopsis: The Fiscal Affairs Committee recommended the Report of Award of Contracts and the Establishment of Contingency Funds for the Veterinary Hospital - Sprinkler for Large Animal Wards project.

WHEREAS a resolution adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following project: Veterinary Hospital - Sprinkler for Large Animal Wards:

**NOW THEREFORE**

BE IT RESOLVED, That pursuant to the actions previously authorized by this Board and upon the recommendation of the Fiscal Affairs Committee, the Report of Award of Contracts and Establishment of Contingency Funds for the Veterinary Hospital - Sprinkler for Large Animal Wards project is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mr. Shumate, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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December 1, 1989 meeting, Board of Trustees

**EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY**

Resolution No. 90-61

Synopsis: The Fiscal Affairs Committee recommended authorization to renew an easement for an underground distribution line to the Columbus Southern Power Company at 2623 Kenny Road in Columbus, Ohio.

WHEREAS in 1974 The Ohio State University granted to the Columbus Southern Power Company a 15-year easement consisting of a strip of land approximately five feet in width and approximately 725 feet in length for the installation of underground cable to the Agronomy Barn at 2623 Kenny Road in Columbus; and

WHEREAS this easement has expired and Columbus Southern Power has requested a renewal for a 15-year period; and

WHEREAS the electric service will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXXI for map, page 635.)

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**EASEMENT  
SOUTH CENTRAL POWER COMPANY**

Resolution No. 90-62

Synopsis: The Fiscal Affairs Committee recommended authorization to renew an underground electric service easement to the South Central Power Company at Overlook Farm in Fairfield County.

WHEREAS in 1974 The Ohio State University granted to South Central Power Company a 15-year easement consisting of a strip of land approximately 15 feet in width and approximately 1,015 feet in length for electric service to the storage shed at the Overlook Farm Apartments in Fairfield County; and

WHEREAS this easement has expired and South Central Power has requested a renewal for a period of 15-years; and

WHEREAS the electric service serves University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

December 1, 1989 meeting, Board of Trustees

**EASEMENT  
SOUTH CENTRAL POWER COMPANY (contd)**

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appenxi XXXXII for map, page 637.)

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**UPDATE ON THE NEXT BOND SALE**

Mr. Nichols:

At the August meeting I had reported some basic information about our outstanding bonds which is still at \$169 million, about half fixed and half between variable. The projects list that I reported to you then was tentative, and still is tentative. No one was dropped off the list yet, so it is looking more firm.

I would like to maybe quickly tell you again what those are. The large project is clearly the PCB electrical system upgrade project, which is approximately half of the project. We have the addition to the Arps Parking Garage; the new Main Bookstore; five or six projects that involve the Athletic Department -- two of them for the steel concrete restoration of the Stadium, and the new roof for St. John Arena, the North Maintenance Facility, the scoreboard in St. John Arena, and the restoration of the turf which has already started.

In addition to that, projects that have been discussed since then that are on the tentative list are the second MRI at the Hospitals; the Water Purification System at McCracken Power Plant; ongoing modifications at the Ohio Unions; and the improvements to the Faculty Club, which you have approved recently. We have some other potential projects that could be on there that are smaller amounts.

We had previously advised people that it would be in the \$30 - \$50 million range. The projects that I have just given you total \$42 million and I think that we are starting to focus in on where the range of that issue will be. Since I talked with you in August, the Attorney General has formally appointed Vorys, Sater, Seymour, and Pease in Columbus, to be bond counsel for this particular issue. We have proceeded through the request for proposals, interviews for investment bankers, and internally have made a selection of the investment bankers. There will be five in the syndicate. I might point out that we started a policy in the 1985 issue where rather than name a single investment banker and let them choose who would be in the syndicate, it was in the best interest of the University if we decided who was in the syndicate and made the various allocations of bonds and took a more active role, shall I say, in the management of the issue. As a result of that review, John Nuveen and Prudential-Bache are the co-leading managers, with Bache basically handling the internal mechanics of the books, as it's known in the trade. There are three co-managers: Huntington National Bank, The Ohio Company, and W. R. Lazard.



December 1, 1989 meeting, Board of Trustees

**UPDATE ON THE NEXT BOND SALE (contd)**

Mr. Nichols: (contd)

We are pleased with the presentations that were given by the various firms and we are very comfortable with the firms that have been chosen. I might add that I have talked with all of them personally and they are all excited to get started on the project. We anticipate that we will come back to you at either the March or April meeting with the voluminous material that accompanies bond issues and ask for your approval to sell the bonds. I might add that we had over 20 proposals for investment bankers and some time was spent in review of those.

Mr. Kessler:

Thank you, Mr. Nichols. Are there questions?

Mr. Teaford:

I have one question. I heard on there the second MRI scanner. The Hospitals Strategic Plan does not include any such program, as I understand it, nor does the Hospitals Board Capital Budget include such an item. So, I am kind of surprised to see it as something we are going to fund. I'm I right, Reed?

Mr. Reed Fraley:

At the last Hospitals Board meeting we did review the Capital Plan and the MRI was a portion of that project.

Mr. Teaford:

It was on there?

Mr. Fraley:

Yes, sir.

Mr. Teaford:

O.K., good.

Mr. Nichols:

That would require, Mr. Teaford, of course as all projects do, two elements that we think are important: 1) that the project is clearly a "go" in the sense that there are either purchase orders out there or we are well on the path; and 2) with regards to the Hospitals is that we would have to have a certificate in need in place before we could proceed. That would be necessary.

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December 1, 1989 meeting, Board of Trustees

## PROPOSAL FOR STIPENDS FOR GRADUATE STUDENTS

Dr. Hutchinson:

Mr. Chairman, in the past we have done our annual review of the graduate stipends that we pay here and at other institutions with whom we compete. As you know, a few years ago we chose to change the date on which we add to the stipends and moved it to January from June or September. We have chosen to continue that. It appears that we also have an obligation to maintain our relative standing which has been about third in the Big 10. We feel that that keeps us competitive in getting the best graduate students and for us to maintain that this year would require an increase of 6.5 percent on the average to graduate stipends. So we are recommending that to you.

Mr. Kessler:

Do we need a motion?

Mr. Scott:

No, we do not. This is a part of the overall budget for 1989-90, and we will see this again on a permanent basis when the President's proposal comes in May 1990.

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Mr. Berry:

Since we won't have a meeting between now and the holidays, I wish everyone of you a very Merry Christmas and Happy New Year. And may the new year start with a victory for Ohio State in the Hall of Fame Bowl and Mr. Scott is in charge of that.

Mr. Scott:

Mr. Chairman, I must confess before you adjourn this meeting that I thought it was going to be 9 and 3 and the Rose Bowl. Remember I said that? And we came within a hair. Next year!

Mr. Berry:

Next year, and I'll be gone!

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Thereupon the Board adjourned to meet Thursday, February 1, and Friday, February 2, 1990, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

John W. Berry  
Chairman

**APPENDIX XXXIV**

**THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
November 17, 1989**

**Presented to the Investments Committee and  
Adopted by the Board of Trustees December 1, 1989  
(See page 559)**



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
November 17, 1989**

**Endowment Composition**

	<u>06-30-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>11-17-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 34,629,320	13.98%	\$ 36,678,930	13.98%
R. Meader	-0-	-0-	13,431,249 (1)	5.12
Neuberger & Berman	13,552,018	5.47	14,064,904	5.36
Nicholas-Applegate	11,475,663	4.63	13,326,026	5.08
OSU Managed	80,168,113	32.35	32,339,011	12.32
Siebel	32,173,227	12.98	33,841,236	12.90
Wells Fargo EAFE	-0-	-0-	9,601,781 (2)	3.66
Wells Fargo S&P 500	-0-	-0-	28,564,288 (3)	10.88
<b>Total Equities</b>	<b>\$171,998,341</b>	<b>69.41%</b>	<b>\$181,847,425</b>	<b>69.30%</b>
<b>Fixed Income:</b>				
Boatmen's Trust	\$ 23,841,580	9.62%	\$ 24,178,088	9.22%
Cambridge	951,048	0.38	954,594	0.36
Duff & Phelps	10,243,208	4.13	10,356,222	3.95
WR Lazard	-0-	-0-	10,138,176 (4)	3.86
OSU - GNMA	10,144,887	4.10	10,241,191	3.90
OSU Managed	6,465,211	2.61	332,875	0.13
STW Fixed Income	24,150,270	9.75	24,360,237	9.28
<b>Total Fixed Income</b>	<b>\$ 75,796,204</b>	<b>30.59%</b>	<b>\$ 80,563,383</b>	<b>30.70%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$247,794,545</b>	<b>100.00%</b>	<b>\$262,408,808</b>	<b>100.00%</b>
<b>Real Estate</b>	<b>\$ 39,593,844</b>		<b>\$ 39,701,379</b>	
<b>Total Portfolio</b>	<b>\$287,298,389</b>		<b>\$302,110,187</b>	

(1) R. Meader began as advisor on August 8, 1989 with \$15,000,000.

(2) Wells Fargo EAFE began as advisor on October 2, 1989 with \$10,000,000.

(3) Wells Fargo S&P 500 began as advisor on October 6, 1989 with \$30,000,000.

(4) WR Lazard began as advisor on August 8, 1989 with \$10,000,000.

# Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value November '88 to November '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Chicago Corp.	3.14% (1)	23.10%	26.24%
R. Meader	0.57 (2)	(10.46)	(9.89) (13)
Neuberger & Bermen	2.82	26.13	28.95
Nicholas-Applegate	1.47 (3)	37.73	39.20
OSU Managed	5.57 (4)	14.58	20.15
Siebel	5.14 (5)	24.79	29.93
Wells Fargo EAFE	0.21	(3.98)	(3.77) (14)
Wells Fargo S&P 500	0.20	(4.79)	(4.59) (15)
Standard & Poor's Index	3.86	28.20	32.06
<b>Real Estate:</b>	3.85%	8.42%	12.27%
<b>Fixed Income:</b>			
Boatman's Trust	7.97% (6)	10.69%	18.66%
Cambridge	8.33 (7)	4.51	12.84
Duff & Phelps	8.12 (8)	5.01	13.13
WR Lazard	2.35 (9)	1.38	3.73 (13)
OSU - GWA	9.78 (10)	3.36	13.14
OSU Managed	9.35 (11)	(2.85)	6.50
STW Fixed Income	8.90 (12)	10.75	19.65
Merrill Lynch Corporate/ Government Master	8.77	5.38	14.15
Jhearnon Lehman Hutton Government/ Corporate Index	9.27	2.87	12.14

- (1) 0.6% of Chicago Corp. portfolio is made up of cash & cash equivalents earning 7.7%.
- (2) 0.3% of R. Meader portfolio is made up of cash & cash equivalents earning 7.7%.
- (3) 1.1% of Nicholas-Applegate portfolio is made up of cash & cash equivalents earning 7.7%.
- (4) 5.5% of OSU Managed portfolio is made up of cash & cash equivalents earning 8.5%.
- (5) 43.7% of Siebel portfolio is made up of cash & cash equivalents earning 8.5%.
- (6) 4.6% of Boatman's Trust portfolio is made up of cash & cash equivalents earning 8.4%.
- (7) 100.0% of Cambridge portfolio is made up of cash & cash equivalents earning 7.7%.
- (8) 1.4% of Duff & Phelps portfolio is made up of cash & cash equivalents earning 7.7%.
- (9) 2.1% of WR Lazard portfolio is made up of cash & cash equivalents earning 7.7%.
- (10) 1.1% of OSU-GWA portfolio is made up of cash & cash equivalents earning 8.6%.
- (11) 0.0% of OSU Managed portfolio is made up of cash & cash equivalents.
- (12) 2.2% of STW Fixed Income portfolio is made up of cash & cash equivalents earning 7.7%.
- (13) Reflects return from initial allocation (August 8, 1989) only.
- (14) Reflects return from initial allocation (October 2, 1989) only.
- (15) Reflects return from initial allocation (October 6, 1989) only.
- (16) Endowment Fund Income through November 30, 1989, totaled approximately \$6,736,000.
- (17) Income from University Cash Investments through November 30, 1989, totaled approximately \$7,283,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>11-17-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-89)	\$287,298,389	Equities	\$164,836,808	54.56%
Principal Additions	10,796,020	Fixed Income	77,487,247	25.65
Principal Withdrawals	(80,000)	Real Estate	39,600,000	13.11
Change in Market Value	<u>4,095,778</u>	Cash	<u>20,186,132</u>	<u>6.68</u>
Current Market Value	<u>\$302,110,187</u>	Total Portfolio	<u>\$302,110,187</u>	<u>100.00%</u>

maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>
131,000	Continental Illinois Corp. 0.0000% 11/01/89	OSU

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

**The Ohio State University  
Common & Preferred Stock**

**Common & Preferred Stock**

**Purchases Made During Period**

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
2,800	CPC International, Inc.	Chicago	65.8120	\$ 184,455.60	\$ 5,040.00
3,100	Crawford & Co.	"	32.8750	102,114.00	1,984.00
3,800	Kemper Corp.	"	47.5000	180,747.00	3,192.00
7,400	Liz Claiborne, Inc.	"	24.4189	180,700.00	1,258.00
9,900	Avnet, Inc.	Nicholas- Applegate	27.4000	271,854.00	4,950.00
3,800	Dillard Department Stores	"	68.0000	258,628.00	608.00
7,100	National Medical Enterprises	"	37.2969	265,233.90	4,828.00
17,000	Service Corp. International	"	15.7416	268,147.72	9,520.00
2	Procter & Gamble Co.*	OSU	127.6900	255.38	5.60
247	Wendy's International*	"	5.3125	1,312.19	59.28
200	Worthington Industries, Inc.*	"	23.6250	4,725.00	88.00
14,900	American Stores	Siebel	54.8367	818,110.00	14,900.00
3,600	General Electric Co.	"	54.1110	195,051.60	5,904.00
12,000	Millipore Corp.	"	27.2265	327,528.00	4,320.00
2,300	Primex Corp.	"	27.5640	<u>63,535.20</u>	<u>644.00</u>
				<u>\$3,122,397.59</u>	<u>\$57,300.88</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
7,400	Bard (CR), Inc.	Chicago	21.3100	\$ 157,207.74	\$ 18,161.74
3,500	Becton Dickson & Co.	"	56.5000	197,515.90	6,723.90
6,200	FPL Group, Inc.	"	32.7500	202,640.23	12,537.23
4,663	Marion Laboratories, Inc.	"	33.8060	157,329.02	70,760.42
3,500	Nucor Corp.	"	57.6250	201,453.27	55,739.52
630	Vivra, Inc.	"	24.3460	15,299.66	(1,634.59)
8,000	Clark Equipment Co.	Nicholas- Applegate	33.8125	270,010.97	11,244.37
1,700	Intel Corp.	"	31.2500	53,125.00	5,854.37
9,000	Legent Corp.	"	25.7365	231,628.10	(40,478.01)
7,600	Telephone and Data Systems, Inc.	"	37.6349	285,559.46	(13,193.04)
2	Procter & Gamble Co.*	OSU	128.7518	<u>256.67</u>	<u>1.29</u>
				<u>\$1,772,026.02</u>	<u>\$125,717.20</u>

\* Gift.



The Ohio State University

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
1,000,000	International Business Machines 8.375% 11/01/19	Boatman's	8.4596	8.4673	99.0000	\$ 990,000.00
1,000,000	Florida State Board of Education G.O. 7.250% 06/01/23	STW	7.2867	7.2899	99.4970	994,970.00
1,000,000	Ford Credit 1989A Grantor Trust 8.700% 11/15/94	"	8.7355	8.7988	99.5937	995,937.50
1,000,000	New York State Dorm Series A 7.125% 05/15/17	"	7.4312	7.4799	95.8790	958,790.00
1,000,000	Tennessee Valley Authority 8.625% 11/15/29	"	8.9937	9.0054	95.9000	959,000.00
7,220,000	U.S. Treasury Bond 10.750% 08/15/05	"	10.0185	9.8254	107.3010	<u>7,747,131.25</u>
						<u>\$12,645,828.75</u>

The Ohio State University  
Bonds/Notes

**Bonds**

**Sales Made During Period**

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
1,000,000	U.S. Treasury Bond 8.875% 02/15/19	Boatman's	110.6562	\$ 1,106,562.50	\$147,187.50
925,000	U.S. Treasury Bond 8.125% 08/15/19	Cambridge	101.7656	941,332.03	20,089.84
4,435,000	U.S. Treasury Note 8.875% 11/15/98	STW	105.7187	4,688,626.56	377,447.33
1,870,000	U.S. Treasury Bond 10.7500 08/15/05	"	123.8645	2,316,265.63	30,185.04
1,000,000	Triborough Bridge NY-Municipal 7.125% 01/01/19	"	95.7980	957,980.00	(23,270.00)
3,420,000	U.S. Treasury Bond 10.375% 11/15/12	"	121.6250	<u>4,159,575.00</u>	<u>374,579.99</u>
				<u>\$14,170,341.72</u>	<u>\$926,219.70</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	Yield	Acquired	Invested	Appraised Value	Date Appraised
Building and 3.295 acres at 930 Kinnear Road	7.97%	1962	\$ 435,204	\$ 1,550,000	06/89
Building and 5.56 acres at 1100 Kinnear Road	3.74	1984	825,000	2,650,000	06/89
Building and 2.633 acres at 1900 Kenny Road	21.84	1961	659,930	1,250,000	06/89
Building and 6.41 acres at 1960 Kenny Road	17.36	1971	1,320,693	2,500,000	06/89
Building and 6.328 acres at 1991 Kenny Road	8.81	1968	170,000	696,000	06/89
46.984 acres of land in Delaware County	.55	1971	100,793	641,000	06/89
Hangar at Don Scott Field (Loan)	.00	1973	28,665 (1)	28,665	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	72,714 (1)	72,714	N/A
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	283,000	06/89
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,896,000	06/89
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,367,000	06/89
76.143 acres of land, 3253 West Granville Road	.03	1968	310,538	6,853,000	06/89
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,749,000	06/89
32 acres of land, 3371 West Granville Road	.19	1986	2,078,666	2,880,000	06/89
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,080,000	06/89
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	770,000	06/89
Undivided one-half interest in building and					
.65 acres at 1375 South Hamilton Road	2.94	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	1,155,000	08/89
17.92 acres of land on Eiterman Road	.00	1978	25,152	725,000	05/88
Veterans Administration Clinic	8.08	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,332,320</u>	<u>\$39,701,379</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261

## MEMORANDUM

Subject: Proxy Solicitations  
Date: November 30, 1989  
From: James L. Nichols, Treasurer *James L. Nichols*  
To: Board of Trustees, The Ohio State University

During the month of November 1989, the University voted five proxies.

Management proposals were as follows:

- 1) Election of the Board of Directors;
- 2) Ratification of independent auditors;
- 3) Approval of a merger agreement;
- 4) Approval of a common stock swap;
- 5) Amendment to change the company name;
- 6) Elimination of classification of the Board of Directors;
- 7) Amendment to increase authorized shares of common stock;
- 8) Approval of a 1989 Stock Option Plan.

The shareholder proposal was as follows:

- 1) Reinstate annual election of all Directors.

The University voted for all Management proposals and against the shareholder proposal, which Management also opposed.

The five corporations were:

- 1) Carter Hawley Hale Stores, Incorporated
- 2) Core States Financial Corporation
- 3) Marion Laboratories, Incorporated
- 4) The Nieman Marcus Group
- 5) Wallace Computer Services, Incorporated

**APPENDIX XXXV**

**THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
ANNUAL TOTAL RETURN COMPARISON BY ADVISOR AND  
THE OHIO STATE UNIVERSITY MANAGED STOCKS  
June 30, 1989**

**Presented to the Investments Committee and  
Adopted by the Board of Trustees December 1, 1989  
(See page 561)**

The Ohio State University Endowment Fund  
Annual Total Return Comparisons by Adviser  
Equity Advisers

	Year Ended June 30											
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Chicago Corporation												
\$17,500,000/\$34,639,320*	15.0%	(2.5)%	11.2%	37.3%	29.9%	(3.0)%	40.0%	(2.1)%	24.0%	15.3%		
Hewitt & Barnes (Mutual Funds)												
\$3,087,848/\$13,552,010*	18.4%	(5.3)%	19.3%	23.4%	27.6%	(2.3)%	44.7%	(7.6)%	18.7%	30.8%		
Michelin-Applegate (1)												
\$18,000,000/\$11,475,643*	11.7%	(6.8)%	13.0%									
Stebel Capital Management												
\$13,500,000/\$12,179,227*	20.8%	1.7%	8.0%	29.3%	31.7%	(8.9)%	58.3%	(3.3)%	35.3%	24.1%		
ODI Managed Equities												
	19.4%	2.1%	4.4%	41.4%	55.3%	4.0%	56.1%	7.3%	34.6%	10.4%		
Standard & Poor's 500 Index	20.4%	(7.6)%	24.9%	35.3%	30.9%	(4.7)%	61.4%	(11.8)%	20.9%	17.1%		
SEI (2)												
5th Percentile	27.4%	3.2%	30.2%	49.4%	38.4%							
25th Percentile	21.0%	-2.1%	23.3%	38.6%	31.4%	(3.7)%	64.3%	(5.3)%	27.6%	21.8%		
Median	18.0%	-5.0%	19.3%	34.0%	27.2%	(6.7)%	58.0%	(9.4)%	23.6%	17.4%		
75th Percentile	15.3%	-7.9%	15.7%	29.6%	23.4%	(14.1)%	51.6%	(13.6)%	19.9%	13.6%		
95th Percentile	10.9%	-12.3%	8.5%	23.6%	13.8%	(21.6)%	39.7%	(20.3)%	14.7%	9.3%		

\* Allocation and market value of investments managed as of June 30, 1989.

(1) Initial allocation made on June 12, 1986.

(2) SEI data obtained from Duff & Phelps.

The Ohio State University  
Office of the Treasurer

The Ohio State University Endowment Fund  
Annual Total Return Comparison by Adviser  
Equity Advisers

	Year Ended June 30				
	1 Year	3 Year	5 Year	10 Year	10 Year
Chicago Corporation					
\$17,500,000/\$14,629,130*	15.02	8.02	17.91	15.91	15.91
Mutual Shares & Bonds (Mutual Funds)					
\$3,007,040/\$13,555,010*	18.41	11.01	16.41	16.11	16.11
Michael-Applegate (1)					
\$10,000,000/\$11,475,643*	11.71	5.41			
Stadel Capital Management					
\$13,500,000/\$12,173,237*	20.91	9.91	17.71	19.01	19.01
OSU Managed Equities					
	19.41	8.41	22.01	22.01	22.01
Standard & Poor's 500 Index					
	20.41	12.01	20.11	17.01	17.01
SEI:					
54th Percentile	27.41	15.91	22.01	21.51	21.51
25th Percentile	21.01	13.01	21.01	18.71	18.71
Median	18.01	11.01	19.21	16.91	16.91
75th Percentile	15.51	8.71	17.51	15.41	15.41
95th Percentile	10.91	5.31	15.11	13.71	13.71

\* Allocation and market value of investments managed as of June 30, 1989.

(1) Initial allocation made on June 12, 1980.

GLJ/mmc  
COWGLJW

The Ohio State University  
Office of the Treasurer

The Ohio State University Endowment Fund  
Annual Total Return Comparison by Asset  
Fixed-Income Advances

	Year Ended June 30											
	1982	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Boston's Trust Company (1)												
\$20,000,000/\$23,787,578*	20.7%	3.3%	5.9%	36.3%	36.3%	--	--	--	--	--	--	--
Cambridge (2)												
\$1,000,000/\$945,533*	11.1%	(1.1)%	--	--	--	--	--	--	--	--	--	--
Duff & Phelps (2)												
\$10,000,000/\$10,299,005*	11.3%	7.7%	--	--	--	--	--	--	--	--	--	--
STW Fixed Income (1)												
\$20,000,000/\$24,011,830*	18.6%	6.6%	1.3%	40.6%	43.9%	--	--	--	--	--	--	--
ODU - CIMA (2)												
\$10,000,000/\$10,146,887*	11.6%	9.5%	--	--	--	--	--	--	--	--	--	--
ODU Managed Fixed Income	4.5%	2.5%	9.5%	13.1%	25.5%	0.3%	32.9%	--	--	--	--	--
Shearson Lehman Government/ Corporate Bond Index	12.3%	7.5%	4.5%	20.1%	28.2%	1.3%	29.2%	12.5%	12.5%	2.9%		
SEI:												
5th Percentile	14.1%	10.1%	8.5%	27.8%	36.4%	7.3%	34.2%	15.9%	15.9%	6.1%	11.0%	
25th Percentile	12.4%	8.6%	6.5%	22.4%	29.3%	5.9%	30.6%	13.8%	13.8%	(1.0)%	6.8%	
Median	10.5%	7.8%	5.6%	19.5%	26.4%	1.8%	26.7%	11.9%	11.9%	(4.5)%	4.5%	
75th Percentile	9.5%	7.1%	4.8%	14.6%	22.0%	(0.2)%	23.5%	10.3%	10.3%	(6.7)%	2.1%	
95th Percentile	8.3%	5.8%	2.9%	10.2%	17.0%	(3.8)%	14.4%	8.0%	8.0%	(10.1)%	(0.4)%	

\* Allocation and market value of investments managed as of June 30, 1989.

(1) Initial allocation made on December 1, 1983.

(2) Initial allocation made on July 20, 1987.

The Ohio State University  
Office of the Treasurer



The Ohio State University Endowment Fund  
Annual Total Return Comparison by Advisor  
Fixed-Income Advisers

	Year Ended June 30	
	1 Year	2 Year
Bestman's Trust Company (1)		
\$20,000,000/\$23,707,370*	20.7%	9.8%
Cambridge (2)		
\$1,000,000/\$945,535*	11.1%	
Duff & Phelps (2)		
\$10,000,000/\$10,299,005*	11.3%	
STV Fixed Income (1)		
\$20,000,000/\$24,013,630*	18.6%	8.9%
ODU-CIMA (2)		
\$10,000,000/\$10,144,007*	11.0%	
ODU Managed Fixed Income	4.5%	5.3%
Roerum Lehman Government/ Corporate Bond Index	12.3%	8.1%
SEI:		
5th Percentile	14.1%	9.8%
25th Percentile	12.4%	8.6%
Median	10.5%	8.0%
75th Percentile	9.5%	7.5%
95th Percentile	8.3%	6.9%

\* Allocation and market value of investments managed as of June 30, 1989.

(1) Initial allocation made on December 1, 1983.

(2) Initial allocation made on July 20, 1987.

The Ohio State University  
Office of the Treasurer

OSU Managed Stocks  
June 30, 1989

Stock	No. of Shares	Cost Per Share	Total Cost	Market Value Per Share	Total Market Value	% of Assets
American Electric Power	30,669	15.9177	\$488,179.94	27.7500	\$851,064.75	2.92%
Anderson Partnership	N/A	N/A	1,070,000.00	N/A	1,070,000.00	3.67%
Bank One Corp.	147,377	8.5725	1,263,389.33	33.5000	4,937,129.50	16.93%
Citizens Utilities Co.	82,137	5.3053	435,761.43	46.2500	3,798,836.25	13.03%
Huntington Bancshares	151,595	4.8599	736,736.54	22.1250	3,354,039.38	11.50%
National City Corp.	53,865	10.2287	550,968.93	35.5000	1,912,207.50	6.56%
Student Loan Mkt-Non-voting	7,450	0.7143	5,321.54	100.2500	746,862.50	2.56%
Student Loan Mkt-Voting	7,866	0.7143	5,618.68	89.7500	705,973.50	2.42%
The Limited Inc.	224,512	24.2511	5,444,662.96	31.6250	7,100,192.00	24.35%
Wendy's International Inc.	296,840	5.3284	1,581,682.26	5.8750	1,743,935.00	5.98%
Worthington Industries	84,981	13.9200	1,182,935.52	22.2500	1,890,827.25	6.49%
Miscellaneous Stocks	N/A	N/A	1,520,052.86	N/A	1,044,589.75	3.58%
TOTAL PORTFOLIO			<u>\$14,285,309.98</u>		<u>\$29,155,657.38</u>	<u>100.00%</u>

OSU Managed Bonds  
June 30, 1989

Security	Par Value	Unit Cost	Total Cost	Price	Total Market Value	% of Assets
-----	-----	-----	-----	-----	-----	-----
Continental Illinois Corp. 0.000% Due 11-01-89	131,000	47.4000	\$62,094.00	96.7500	\$126,742.50	27.24%
Rapid American Corp. 10.750% Due 12-01-03	375,000	73.0000	273,750.00	60.0000	225,000.00	48.37%
U.S. Treasury Note 14.875% Due 08-15-91	100,000	99.9688	99,968.75	113.4688	113,468.75	24.39%
 TOTAL PORTFOLIO			 \$435,812.75 -----		 \$465,211.25 -----	 100.00% -----

The Ohio State University Endowment  
PORTFOLIO APPRAISAL  
OSU-GNMA Fund  
June 30, 1989

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Cur. Yield
-----	-----	-----	-----	-----	-----	-----	-----
GNMA							
121,182	GNMA #141451 10.500% Due 11-15-00	104.87	127,089.58	103.53	125,461.20	1.2	10.1
694,951	GNMA #142874 10.500% Due 11-15-00	104.87	728,829.87	103.53	719,491.47	7.1	10.1
24,092	GNMA #147676 10.500% Due 01-15-01	104.88	25,266.74	103.53	24,942.99	0.2	10.1
146,570	GNMA #263305 9.500% Due 09-15-03	99.50	145,836.16	101.62	148,951.80	1.5	9.3
274,192	GNMA #146496 10.500% Due 02-15-16	104.31	286,016.15	103.97	285,074.48	2.8	10.1
567,819	GNMA #153722 10.500% Due 03-15-16	104.25	591,951.70	103.97	590,354.72	5.8	10.1
329,377	GNMA #177118 9.000% Due 08-15-16	93.81	308,996.36	97.81	322,171.42	3.2	9.2
948,837	GNMA #187313 9.000% Due 12-15-16	95.75	908,511.68	97.81	928,081.44	9.1	9.2
290,683	GNMA #191555 9.000% Due 12-15-16	95.16	276,603.02	97.81	284,324.29	2.8	9.2
935,408	GNMA #213648 9.000% Due 06-15-17	95.63	894,484.24	97.81	914,946.29	9.0	9.2
919,499	GNMA #213734 9.500% Due 07-15-17	98.56	906,280.54	99.94	918,924.27	9.1	9.5
989,458	GNMA #215511 10.000% Due 08-15-17	100.69	996,260.29	102.09	1,010,174.87	10.0	9.8
949,831	GNMA #201077 9.500% Due 08-15-17	97.69	927,865.90	99.94	949,237.07	9.4	9.5
383,208	GNMA #201756 10.000% Due 08-15-17	101.62	389,434.64	102.09	391,230.93	3.9	9.8

The Ohio State University Endowment  
PORTFOLIO APPRAISAL  
OSU-GNMA Fund  
June 30, 1989

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Cur. Yield
957,626	GNMA #219379 10.000% Due 08-15-17	100.69	964,209.16	102.09	977,676.06	9.6	9.8
484,035	GNMA #231333 10.000% Due 08-15-17	101.62	491,900.74	102.09	494,169.98	4.9	9.8
964,016	GNMA #231145 9.500% Due 08-15-17	97.81	942,927.67	99.94	963,413.43	9.5	9.5
			-----		-----	-----	-----
			9,912,464.44		10,048,626.70	99.1	9.6
CASH AND EQUIVALENTS							
	OSU-GNMA NCC Money Market		96,261.49		96,261.49	0.9	8.6
			-----		-----	-----	-----
			96,261.49		96,261.49	0.9	8.6
TOTAL PORTFOLIO							
			-----		-----	-----	-----
			10,008,725.93		10,144,888.19	100.0	9.6
			=====		=====	=====	=====

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**APPENDIX XXXVI**

**ASSESSING EXTENSION PROGRAM NEEDS AT THE LOCAL LEVEL**

**Presented to the Agricultural Affairs Committee  
(See page 570)**



Ohio Cooperative Extension Service

Office of the Director  
2120 Fyffe Road  
Columbus, OH 43210-1010  
Phone 614-292-4067

AGRICULTURE AFFAIRS COMMITTEE  
BOARD OF TRUSTEES  
December 1, 1989

ASSESSING EXTENSION PROGRAM NEEDS AT THE LOCAL LEVEL

\* NATIONAL INITIATIVES

The Ohio Cooperative Extension Service is part of the national Cooperative Extension System. Eight National Priority Initiatives have been identified as the agenda focus leading into the 21st century:

- Alternative Agricultural Opportunities
- Building Human Capital
- Competitiveness and Profitability of American Agriculture
- Conservation and Management of Natural Resources
- Family and Economic Well-Being
- Improving Nutrition, Diet and Health
- Revitalizing Rural America
- Water Quality

\* OHIO ISSUES

As a result of a comprehensive long range planning process which involved a cross section of Ohio citizens (December, 1987), six issues critical to Ohio were formulated:

- Financial Survival in Agriculture
- Rural Revitalization
- Family Well-Being
- Preparing Youth for Responsibility
- Water Quality
- Leadership



The Ohio State University, The United States Department of Agriculture and County Commissioners Cooperating



#### \* COUNTY DEMOGRAPHIC INFORMATION

A jointly funded project of OCES and the Job Training Partnership Act has made possible the development of Ohio Community Notebook and computer data base. Sam Crawford, OCES Community Development Specialist is able to generate county demographic profiles using the most current statistical data available. Following are examples of what county profiles include:

- population projections
- per capita income
- business growth and change
- sources of county income
- race, age, marital status analyses

#### \* COUNTY NEEDS ASSESSMENT

Needs Assessment for the Ohio Cooperative Extension Service is the process of identifying the most critical issues/needs of people within the mission of OCES. Coordination of the process will be managed through the Leader, Program Development. A committee will be involved in developing a package of needs assessment formats for county faculty to use throughout 1990.

#### \* PLAN OF WORK

The Annual Plans of Work of county faculty are used to develop a statewide four year plan. The plans reflect the coordination of county needs, Ohio issues, and National Initiatives.

The Extension Program Planning Process is a comprehensive model including:

##### -Planning

The development of a specific program based upon identified needs. Plans include objectives, target audiences, proposed teaching methods, and steps to involve local clientele.

##### -Implementation

This stage includes timetables, marketing strategies for specific programs, development of appropriate teaching materials and actual procedures for conducting programs.

##### -Evaluation and Reporting

Evaluation includes assessment of program impacts regarding individual and community change. Reporting involves aggregation of data for county, state and federal funding sources and for marketing programs.

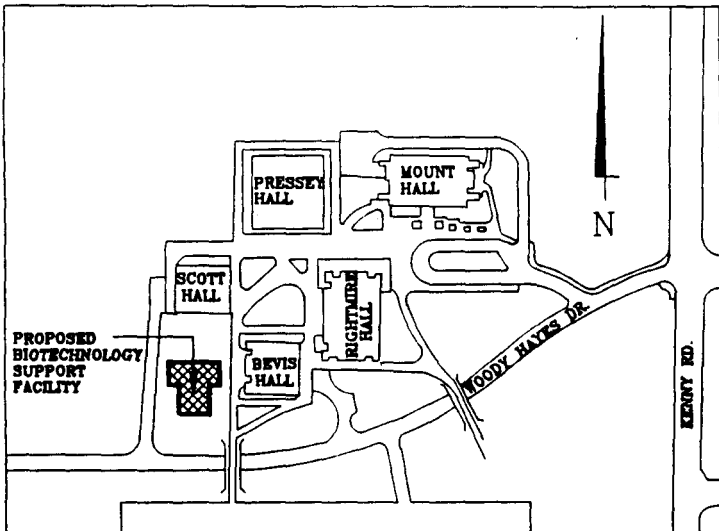
Page 620 is blank

**APPENDIX XXXVII**

**BIOTECHNOLOGY SUPPORT FACILITY  
BOTANY AND ZOOLOGY GREENHOUSE**

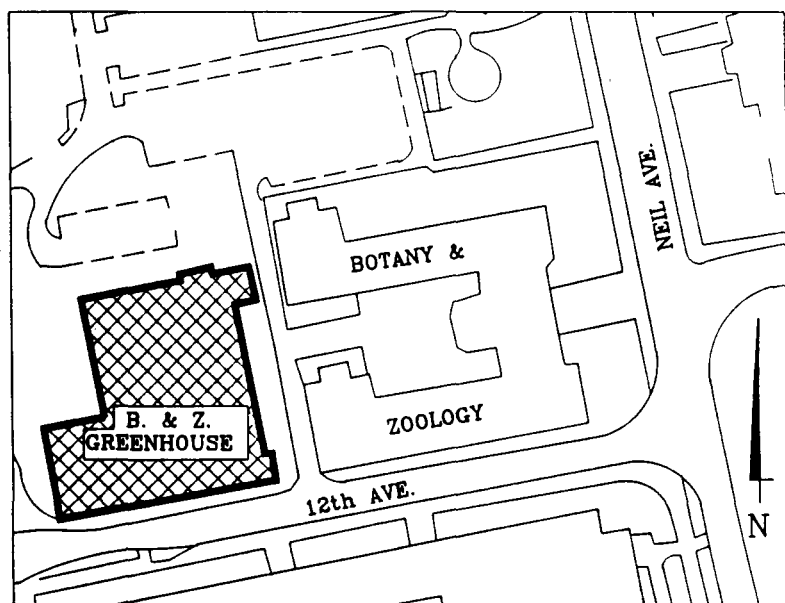
**Adopted by the Board of Trustees December 1, 1989  
(See page 588)**

# BIOTECHNOLOGY SUPPORT FACILITY



OFFICE OF BUSINESS AND ADMINISTRATION  
DECEMBER 1, 1989

# BOTANY AND ZOOLOGY GREENHOUSE



OFFICE OF BUSINESS AND ADMINISTRATION  
DECEMBER 1, 1989

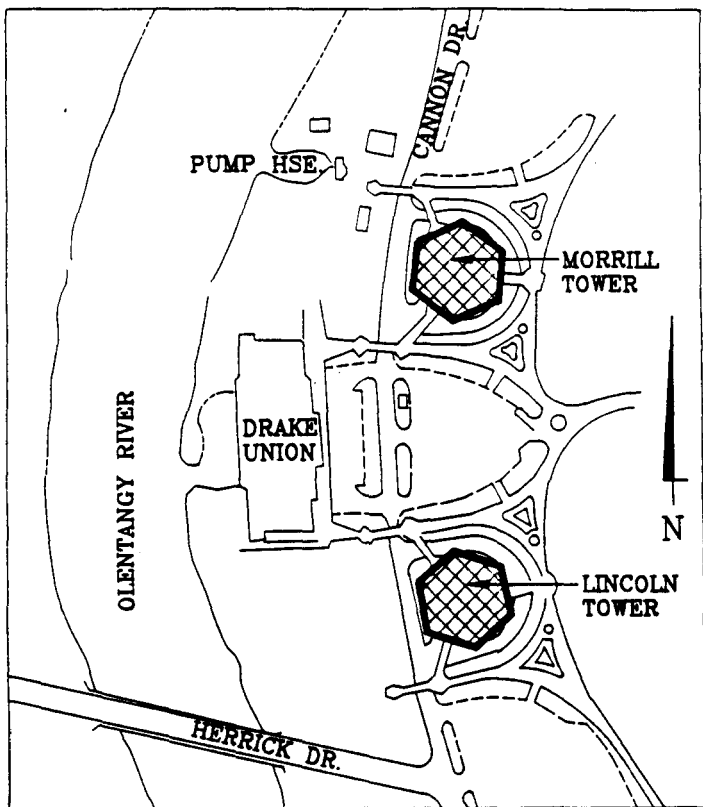
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**APPENDIX XXXVIII**

**MORRILL TOWER AND LINCOLN TOWER  
RESIDENCE HALLS UPGRADE TREATMENT - PHASE I**

**Adopted by the Board of Trustees December 1, 1989  
(See page 589)**

# MORRILL TOWER AND LINCOLN TOWER RESIDENCE HALLS UPGRADE TREATMENT - PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION  
DECEMBER 1, 1989

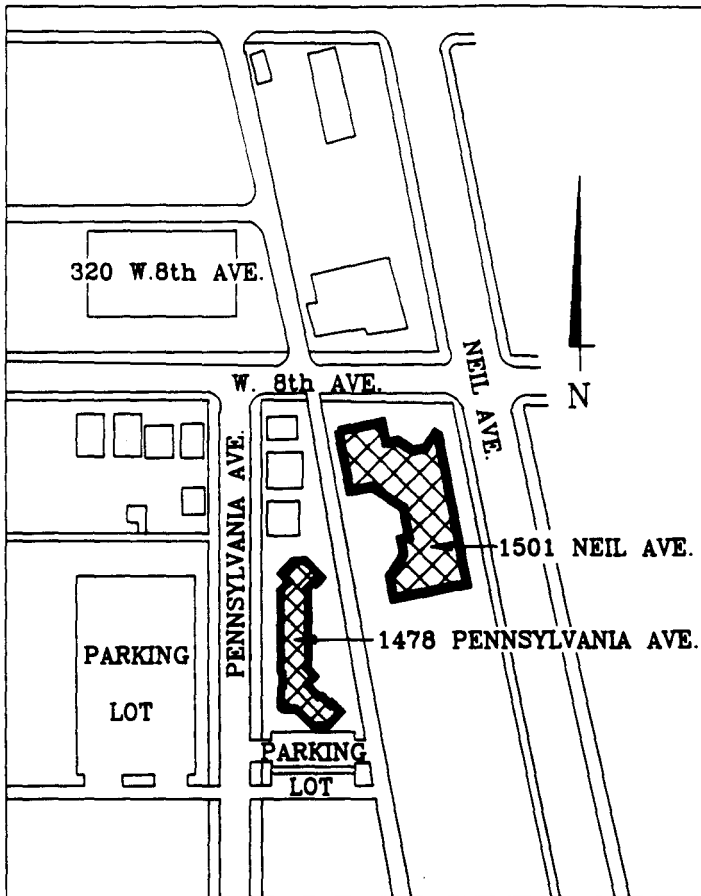


**APPENDIX XXXVIV**

**1501 NEIL AVENUE RENOVATION AND  
ASTRONOMICAL INSTRUMENTATION FACILITY**

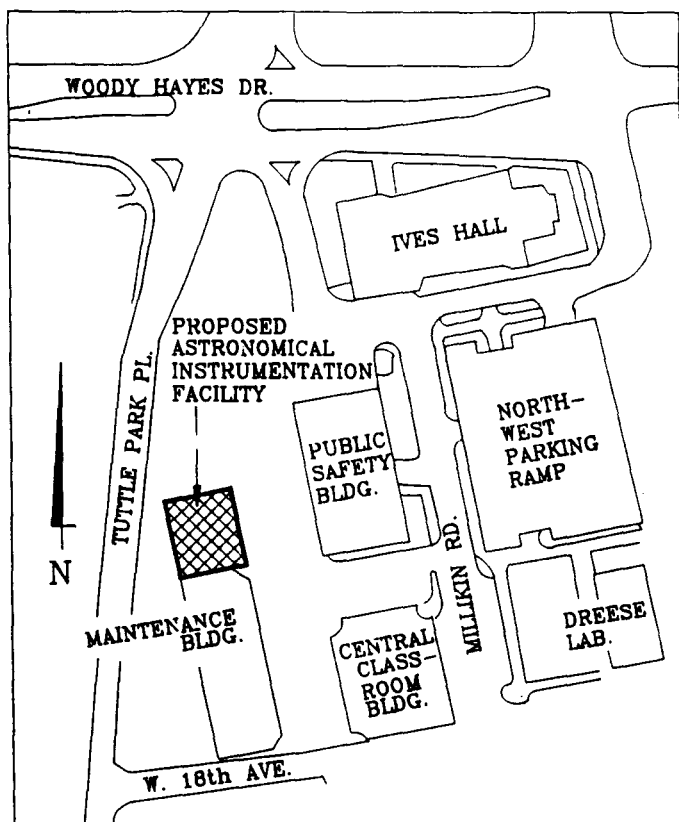
**Adopted by the Board of Trustees December 1, 1989  
(See page 591)**

# 1501 NEIL AVENUE RENOVATION



OFFICE OF BUSINESS AND ADMINISTRATION  
DECEMBER 1, 1969

# ASTRONOMICAL INSTRUMENTATION FACILITY



OFFICE OF BUSINESS AND ADMINISTRATION  
DECEMBER 1, 1989

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APPENDIX XXXX

VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARDS

Adopted by the Board of Trustees December 1, 1989  
(See page 592)

December 1, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

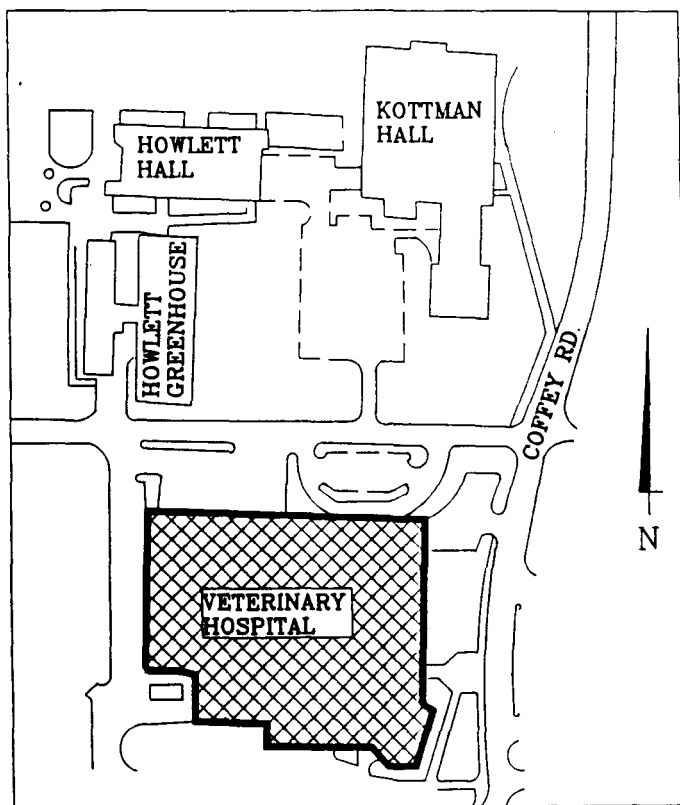
VETERINARY HOSPITAL - SPRINKLER FOR LARGE ANIMAL WARD

Tabulation of Bids

Bids received by The Ohio State University on October 12, 1989. Bids opened by Tamara Bell and tabulated by Ray Yanscik. Awards indicated with an "\*\*".

<u>Fire Protection Contract</u>	<u>Estimate</u>	<u>Culligan Fire *</u>	<u>Communele</u>	<u>Dalmation</u>
Base Bid	\$115,000.00	\$52,000.00	\$53,000.00	\$68,000.00
Alt. P-1 (Addn'l Sprinklers)	3,000.00	4,000.00	3,700.00	500.00
Total Fire Prot. Contract	\$118,000.00	\$56,000.00	\$56,700.00	\$68,500.00

# VETERINARY HOSPITAL SPRINKLER FOR LARGE ANIMAL WARDS



OFFICE OF BUSINESS AND ADMINISTRATION  
DECEMBER 1, 1989

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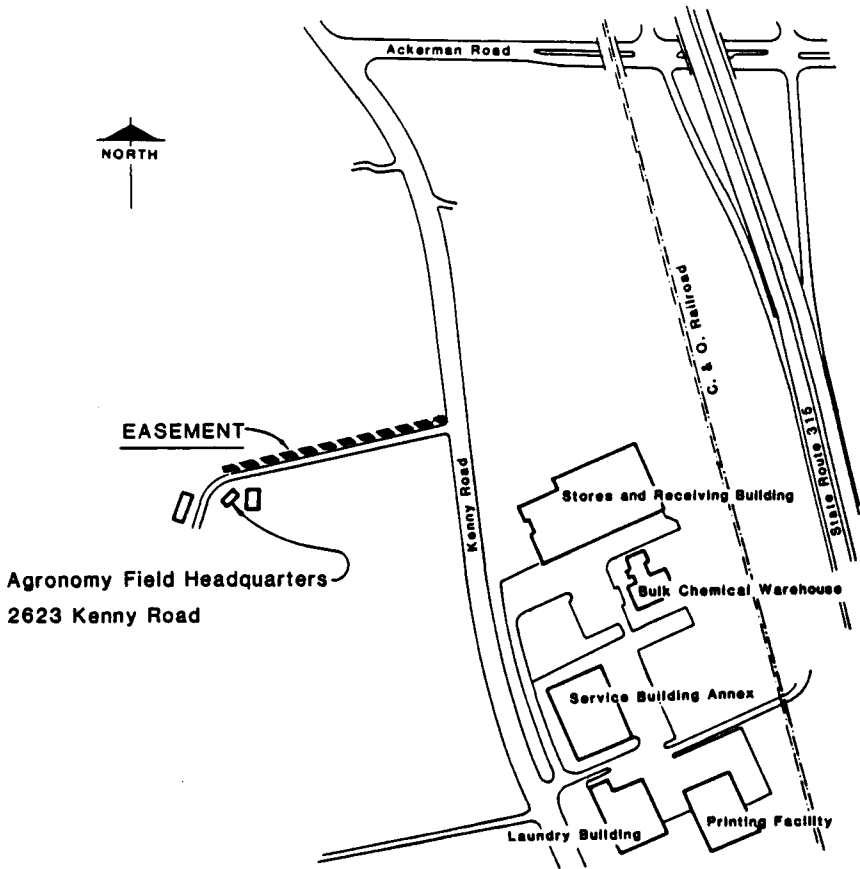


**APPENDIX XXXXI**

**COLUMBUS SOUTHERN POWER COMPANY  
EASEMENT RENEWAL**

**Adopted by the Board of Trustees December 1, 1989  
(See page 593)**

Columbus Southern Power Company Easement Renewal



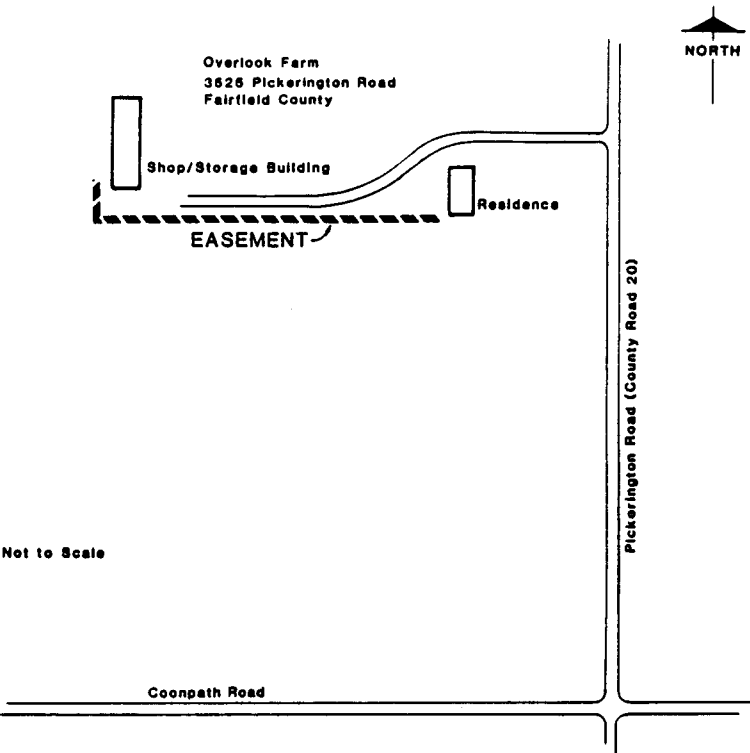
Office of Business and Administration  
December 1, 1989

APPENDIX XXXXII

SOUTH CENTRAL POWER COMPANY  
EASEMENT RENEWAL AT OVERLOOK FARM

Adopted by the Board of Trustees December 1, 1989  
(See page 593)

South Central Power Company Easement Renewal  
at Overlook Farm



Office of Business and Administration  
December 1, 1989

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1989-90

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